

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Motiva Enterprises LLC

AUTHORIZING THE OPERATION OF
Port Arthur Refinery
Port Arthur Refinery PAR-CEP
Petroleum Refining

LOCATED AT
Jefferson County, Texas
Latitude 29° 52' 59" Longitude 93° 57' 59"
Regulated Entity Number: RN100209451

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: Q3387 Issuance Date: October 31, 2016

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts CC, UUU, YYYY, ZZZZ, and DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §§ 113.340, 113.780, 113.1080, 113.1090, and 113.1130 which incorporates the 40 CFR Part 63 Subparts by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1 , shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
 - (3) Records of all observations shall be maintained.
 - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the

air emission source or enclosed facility is not operating for the entire quarter.

- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the

source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(a)(1).
- 5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
 - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.221 (relating to Emission Specifications)
 - (ii) Title 30 TAC § 115.222 (relating to Control Requirements)

- (iii) Title 30 TAC § 115.223 (relating to Alternate Control Requirements)
 - (iv) Title 30 TAC § 115.224 (relating to Inspection Requirements)
 - (v) Title 30 TAC § 115.225 (relating to Testing Requirements)
 - (vi) Title 30 TAC § 115.226 (relating to Recordkeeping Requirements)
- 6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter D requirements:
 - A. Title 30 TAC § 115.312(a)(1) (relating to Control Requirements), for emissions during Process Unit Shutdown or Turnaround
 - B. Title 30 TAC § 115.316(a)(2) (relating to Recordkeeping Requirements), for Process Unit Shutdown or Turnaround
- 7. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter F, Division 3, Degassing of Storage Tanks, Transport Vessels and Marine Vessels:
 - A. For degassing of stationary VOC storage tanks, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.541(a) - (c) (relating to Emission Specifications)
 - (ii) Title 30 TAC § 115.541(f) (relating to Emission Specifications), for floating roof storage tanks
 - (iii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.
 - (iv) Title 30 TAC § 115.542(b) - (d), (relating to Control Requirements)
 - (v) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
 - (vi) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
 - (vii) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
 - (viii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices
 - (ix) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
 - (x) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring

- (xi) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
 - (xii) Title 30 TAC § 115.545(1) - (7), (9) - (11) and (13) (relating to Approved Test Methods)
 - (xiii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
 - (xiv) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
 - (xv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)
 - (xvi) Title 30 TAC § 115.547(4) (relating to Exemptions)
8. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
9. For petroleum refinery facilities subject to 40 CFR Part 60, Subpart QQQ, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 60.692-1(a) - (c) (relating to Standards: General)
 - B. Title 40 CFR § 60.692-2(a) - (c), (e) (relating to Standards: Individual Drain Systems)
 - C. Title 40 CFR § 60.692-2(d) (relating to Standards: Individual Drain Systems)
 - D. Title 40 CFR § 60.692-6(a) - (b) (relating to Standards: Delay of Repair)
 - E. Title 40 CFR § 60.692-7(a) - (b) (relating to Standards: Delay of Compliance)

- F. Title 40 CFR § 60.693-1(a) - (d), (e)(1) - (3) (relating to Alternative Standards for Individual Drain Systems)
 - G. Title 40 CFR § 60.697(a), (b)(1) - (3) (relating to Recordkeeping Requirements), as applicable to Individual Drain Systems
 - H. Title 40 CFR § 60.697(f)(1) - (2), (g) (relating to Recordkeeping Requirements), as applicable to Individual Drain Systems
 - I. Title 40 CFR § 60.697(h) (relating to Recordkeeping Requirements), as applicable to excluded Stormwater Sewer Systems
 - J. Title 40 CFR § 60.697(i) (relating to Recordkeeping Requirements), as applicable to excluded Ancillary Equipment
 - K. Title 40 CFR § 60.697(j) (relating to Recordkeeping Requirements), as applicable to excluded Non-contact Cooling Water Systems
 - L. Title 40 CFR § 60.698(a), and (b)(1) (relating to Reporting Requirements), as applicable to Individual Drain Systems
 - M. Title 40 CFR § 60.698(c) (relating to Reporting Requirements), for water seal breaches in Drain Systems
 - N. Title 40 CFR § 60.698(e) (relating to Reporting Requirements), as applicable to Individual Drain Systems
10. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
 - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
 - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
11. For facilities where total annual benzene quantity from waste is greater than or equal to 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:

- A. Title 40 CFR § 61.342(c)(1)(i) - (iii) (relating to Standards: General)
 - B. Title 40 CFR § 61.342(c)(2) (relating to Standards: General)
 - C. For exempting waste streams:
 - (i) Title 40 CFR § 61.342(c)(3)(ii)(A) - (C) (relating to Standards: General)
 - D. Title 40 CFR § 61.342(f)(1), and (2) (relating to Standards: General)
 - E. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - F. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - G. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions)
 - H. Title 40 CFR § 61.355(j) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - I. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - J. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - K. Title 40 CFR § 61.356(b)(2)(i) - (ii) (relating to Recordkeeping Requirements)
 - L. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - M. Title 40 CFR § 61.356(c) (relating to Recordkeeping Requirements)
 - N. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
 - O. Title 40 CFR § 61.357(d)(3) (relating to Reporting Requirements)
12. For facilities with containers subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.345(a)(1) - (3), (b), and (c) (relating to Standards: Containers)
 - B. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
 - C. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)
13. For facilities with individual drain systems subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.346(a)(1)(i)(A), (B), (ii), (2), and (3) (relating to Standards: Individual Drain Systems)

- B. Title 40 CFR § 61.346(b)(1), (2), (2)(i), (3), (4)(i) - (iv), and (5) (relating to Standards: Individual Drain Systems)
 - C. Title 40 CFR § 61.346(b)(2)(ii)(A) (relating to Standards: Individual Drain Systems), for junction boxes
 - D. Title 40 CFR § 61.346(b)(2)(ii)(B) (relating to Standards: Individual Drain Systems), for junction boxes
 - E. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
 - F. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
 - G. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)
14. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
15. For the bulk gasoline terminals specified in 40 CFR Part 63, Subpart R, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.230 incorporated by reference):
- A. Title 40 CFR § 63.420(h), for applicability of the General Provisions of Subpart A
 - B. Title 40 CFR § 63.422(c), (c)(1) - (2) (relating to Standards: Loading Racks)
 - C. Title 40 CFR § 63.424(a) - (d) (relating to Standards: Equipment Leaks)
 - D. Title 40 CFR § 63.424(g) (relating to Standards: Equipment Leaks)
 - E. Title 40 CFR § 63.425(e) - (h) (relating to Test Methods and Procedures)
 - F. Title 40 CFR § 63.428(a) - (b), (g)(1), and (h)(2) - (3) (relating to Reporting and Recordkeeping)
 - G. Title 40 CFR § 63.428(e)(1) - (7), (f)(1) - (2), (g), (g)(3), (h)(4)(i) - (iv) (relating to Reporting and Recordkeeping)
16. For the operations pertaining to the loading and unloading of marine tank vessels specified in 40 CFR Part 63, Subpart Y, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.300 incorporated by reference):
- A. Title 40 CFR § 63.560(c) (relating to Designation of Affected Source), for applicability of the General Provisions of Subpart A
 - B. Title 40 CFR § 63.563(a)(4) (relating to Compliance and Performance Testing), for vapor tightness requirements of the marine vessels
 - C. Title 40 CFR § 63.564(a)(1) and (d) (relating to Monitoring Requirements)

- D. Title 40 CFR § 63.565(a) (relating to Test Methods and Procedures), for performance testing requirements
 - E. Title 40 CFR § 63.565(c) (relating to Test Methods and Procedures), for vapor tightness requirements of the marine vessels
 - F. Title 40 CFR § 63.566 (relating to Construction and Reconstruction)
 - G. Title 40 CFR § 63.567(a) - (b) and (h) - (i) (relating to Reporting and Recordkeeping Requirements)
17. For sources subject to emission standards in 40 CFR Part 63, Subpart CC, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.340 incorporated by reference):
- A. Title 40 CFR § 63.640(l)(3) - (4) (relating to Applicability and Designation of Affected Source), for units and equipment added to an existing source
 - B. Title 40 CFR § 63.640(m)(1) - (2) (relating to Applicability and Designation of Affected Source), for units and emission points changing from Group 2 to Group 1 status
 - C. Title 40 CFR § 63.642(c) (relating to General Standards), for applicability of the General Provisions of Subpart A
 - D. Title 40 CFR § 63.642(e) (relating to General Standards), for recordkeeping
 - E. Title 40 CFR § 63.642(f) (relating to General Standards), for reporting
 - F. Group 1 process wastewater streams not managed in a wastewater management unit subject to 40 CFR Part 63, Subpart G shall comply with 40 CFR Part 61, Subpart FF as specified in 40 CFR §§ 63.647(a) - (c) and 63.655(a)
18. The permit holder shall comply with the requirement to prepare and implement an Operations and Maintenance plan in accordance with 40 CFR Part 63, Subpart UUU, § 63.1574(f) (Title 30 TAC Chapter 113, Subchapter C, § 113.780 incorporated by reference).
19. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

20. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
21. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

22. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions

referenced in the New Source Review Authorization References attachment. These requirements:

- A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
23. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
24. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

25. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
26. The permit holder shall adhere to the provisions in the Compliance Schedule attachment of this permit and submit certified progress reports consistent with the schedule established under 30 TAC § 122.132(e)(4)(C) and including the information specified in 30 TAC § 122.142(e)(2). Those emission units listed in the Compliance Schedule attachment shall adhere with the requirements in the Compliance Schedule attachment until operating fully in compliance with the applicable requirements.
27. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
- A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
 - (i) For sources in the Beaumont-Port Arthur Nonattainment area, 30 TAC § 117.9000

- B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.150(c) and (c)(1).
28. Use of Emission Credits to comply with applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
 - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
29. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

- (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
- (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

- 30. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

- 31. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Temporary Fuel Shortages (30 TAC § 112.15)

- 32. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
 - A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)
 - B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)
 - C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
 - D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Permit Location

33. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

34. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Schedules

Applicable Requirements Summary

Unit Summary 21

Applicable Requirements Summary 37

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
004TK001	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
BOILER 46	Emission Points/Stationary Vents/Process Vents	N/A	R1111-BOILER 46	30 TAC Chapter 111, Visible Emissions	No changing attributes.
BOILER 46	Boilers/Steam Generators/Steam Generating Units	N/A	60Db-BOILER 46	40 CFR Part 60, Subpart Db	No changing attributes.
BOILER 46	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-BOILER 46	40 CFR Part 60, Subpart J	No changing attributes.
BOILER 46	Boilers/Steam Generators/Steam Generating Units	N/A	63DDDDD-BLR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
CEPFUG	Fugitive Emission Units	N/A	R5322-CEPFUG	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
CEPFUG	Fugitive Emission Units	N/A	63CC-CEPFUG	40 CFR Part 63, Subpart CC	No changing attributes.
CRU5FE	Industrial Process Cooling Towers	N/A	63CC-CRU5FE	40 CFR Part 63, Subpart CC	No changing attributes.
CRU5INTHT1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J- CRU5INTHT1	40 CFR Part 60, Subpart J	No changing attributes.
CRU5INTHT1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
CRU5INTHT2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J- CRU5INTHT2	40 CFR Part 60, Subpart J	No changing attributes.
CRU5INTHT2	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
CRU5INTHT3	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-CRU5INTHT3	40 CFR Part 60, Subpart J	No changing attributes.
CRU5INTHT3	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
CRU5PLATHT	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-CRU5PLATHT	40 CFR Part 60, Subpart J	No changing attributes.
CRU5PLATHT	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
DCU2ENG3102	SRIC Engines	N/A	60III-02	40 CFR Part 60, Subpart III	No changing attributes.
DCU2ENG3102	SRIC Engines	N/A	63ZZZZ-03	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
DCU2ENG3124	SRIC Engines	N/A	60III-02	40 CFR Part 60, Subpart III	No changing attributes.
DCU2ENG3124	SRIC Engines	N/A	63ZZZZ-03	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
DCU2FE	Industrial Process Cooling Towers	N/A	63CC-DCU2FE	40 CFR Part 63, Subpart CC	No changing attributes.
EDCU2	Flares	N/A	R1111-EDCU2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EDCU2	Flares	N/A	60A-EDCU2	40 CFR Part 60, Subpart A	No changing attributes.
EDCU2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
EHCU2	Flares	N/A	R1111-EHCU2	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
EHCU2	Flares	N/A	60A-EHCU2	40 CFR Part 60, Subpart A	No changing attributes.
EHCU2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
ESBU2	Flares	N/A	R1111-ESBU2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
ESBU2	Flares	N/A	60A-ESBU2	40 CFR Part 60, Subpart A	No changing attributes.
ESBU2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
EVPS5	Flares	N/A	R1111-EVPS5	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EVPS5	Flares	N/A	60A-EVPS5	40 CFR Part 60, Subpart A	No changing attributes.
EVPS5	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
GRP-SW&RESEN	SRIC Engines	RESENENG1008, RESENENG2005, SWENG0002, SWENG2001, SWENG9003, SWENG9012	60III-01	40 CFR Part 60, Subpart III	No changing attributes.
GRP-SW&RESEN	SRIC Engines	RESENENG1008, RESENENG2005, SWENG0002, SWENG2001, SWENG9003, SWENG9012	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GTG41	Stationary Turbines	N/A	60KKKK-GTG41	40 CFR Part 60, Subpart KKKK	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GTG41	Stationary Turbines	N/A	63YYYY-GTG41	40 CFR Part 63, Subpart YYYY	No changing attributes.
GTG42	Stationary Turbines	N/A	60KKKK-GTG42	40 CFR Part 60, Subpart KKKK	No changing attributes.
GTG42	Stationary Turbines	N/A	63YYYY-GTG42	40 CFR Part 63, Subpart YYYY	No changing attributes.
GTG43	Stationary Turbines	N/A	60KKKK-GTG43	40 CFR Part 60, Subpart KKKK	No changing attributes.
GTG43	Stationary Turbines	N/A	63YYYY-GTG43	40 CFR Part 63, Subpart YYYY	No changing attributes.
GTG44	Stationary Turbines	N/A	60KKKK-GTG44	40 CFR Part 60, Subpart KKKK	No changing attributes.
GTG44	Stationary Turbines	N/A	63YYYY-GTG44	40 CFR Part 63, Subpart YYYY	No changing attributes.
HCU2DH1H1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HCU2DH1H1	40 CFR Part 60, Subpart J	No changing attributes.
HCU2DH1H1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
HCU2H1A	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HCU2H1A	40 CFR Part 60, Subpart J	No changing attributes.
HCU2H1A	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
HCU2H1B	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HCU2H1B	40 CFR Part 60, Subpart J	No changing attributes.
HCU2H1B	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HCU2H2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HCU2H2	40 CFR Part 60, Subpart J	No changing attributes.
HCU2H2	Process Heaters/Furnaces	N/A	63DDDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
HRSG41	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HRSG41	40 CFR Part 60, Subpart J	No changing attributes.
HRSG42	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HRSG42	40 CFR Part 60, Subpart J	No changing attributes.
HRSG43	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HRSG43	40 CFR Part 60, Subpart J	No changing attributes.
HRSG44	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HRSG44	40 CFR Part 60, Subpart J	No changing attributes.
HTU6CHGH1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HTU6CHGH1	40 CFR Part 60, Subpart J	No changing attributes.
HTU6CHGH1	Process Heaters/Furnaces	N/A	63DDDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
HTU6CHGH2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-HTU6CHGH2	40 CFR Part 60, Subpart J	No changing attributes.
HTU6CHGH2	Process Heaters/Furnaces	N/A	63DDDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
NHTU2CHT	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-NHTU2CHT	40 CFR Part 60, Subpart J	No changing attributes.
NHTU2CHT	Process Heaters/Furnaces	N/A	63DDDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
NHTU2SPLT	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-NHTU2SPLT	40 CFR Part 60, Subpart J	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
NHTU2SPLT	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
NHTU2STRP	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-NHTU2STRP	40 CFR Part 60, Subpart J	No changing attributes.
NHTU2STRP	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
PAINT	Surface Coating Operations	N/A	R5420-PAINT	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
PRO SRU 4	Gas Sweetening/Sulfur Recovery Units	N/A	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PRO SRU 4	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-02	40 CFR Part 60, Subpart J	No changing attributes.
PRO SRU 5-1	Gas Sweetening/Sulfur Recovery Units	N/A	112SRU5-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PRO SRU 6-1	Gas Sweetening/Sulfur Recovery Units	N/A	112SRU6-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PRO SRU 7-1	Gas Sweetening/Sulfur Recovery Units	N/A	112SRU7-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PRO SRU2&3	Gas Sweetening/Sulfur Recovery Units	N/A	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
SCHCU2-5	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SCHCU2-5	40 CFR Part 60, Subpart J	No changing attributes.
SCHCU2-5	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
SCRU5-1	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SCRU5-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SCRU5-2	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SCRU5-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SCRU5-3	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SCRU5-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SCRU5-3	Emission Points/Stationary Vents/Process Vents	N/A	63UUU-SCRU5-3	40 CFR Part 63, Subpart UUU	No changing attributes.
SDCU2-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SDCU2-1	40 CFR Part 60, Subpart J	No changing attributes.
SDCU2-1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
SDCU2-2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SDCU2-2	40 CFR Part 60, Subpart J	No changing attributes.
SDCU2-2	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
SDCU2-3	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SDCU2-3	40 CFR Part 60, Subpart J	No changing attributes.
SDCU2-3	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
SHCU2-5	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SHCU2-5	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
SNHTU2-3	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SNHTU2- 3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SPS4-1	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SPS4-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SPS4-2	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SPS4-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SPS4-3	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SPS4-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SPS4-4	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SPS4-4	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SRU5	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SRU5	40 CFR Part 60, Subpart J	No changing attributes.
SRU6	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SRU6	40 CFR Part 60, Subpart J	No changing attributes.
SRU7	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-SRU7	40 CFR Part 60, Subpart J	No changing attributes.
STGTU1-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-03	40 CFR Part 60, Subpart J	No changing attributes.
STGTU1-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-01	40 CFR Part 63, Subpart UUU	No changing attributes.
STGTU1-2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-04	40 CFR Part 60, Subpart J	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
STGTU1-2	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
STGTU2-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-03	40 CFR Part 60, Subpart J	No changing attributes.
STGTU2-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-01	40 CFR Part 63, Subpart UUU	No changing attributes.
STGTU2-2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-04	40 CFR Part 60, Subpart J	No changing attributes.
STGTU2-2	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
STGTU5-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-STGTU5-1	40 CFR Part 60, Subpart J	No changing attributes.
STGTU5-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-STGTU5-1	40 CFR Part 63, Subpart UUU	No changing attributes.
STGTU6-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-STGTU6-1	40 CFR Part 60, Subpart J	No changing attributes.
STGTU6-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-STGTU6-1	40 CFR Part 63, Subpart UUU	No changing attributes.
STGTU7-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-STGTU7-1	40 CFR Part 60, Subpart J	No changing attributes.
STGTU7-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-STGTU7-1	40 CFR Part 63, Subpart UUU	No changing attributes.
SVPS5-1	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SVPS5-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
SVPS5-2	Emission Points/Stationary Vents/Process Vents	N/A	R1111-SVPS5-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
TK 1908	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 1937	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 1937	Storage Tanks/Vessels	N/A	63CC-TK1937	40 CFR Part 63, Subpart CC	No changing attributes.
TK 1938	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 1938	Storage Tanks/Vessels	N/A	61FF-TK1938	40 CFR Part 61, Subpart FF	No changing attributes.
TK 1939	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 1939	Storage Tanks/Vessels	N/A	61FF-TK1939	40 CFR Part 61, Subpart FF	No changing attributes.
TK 2067	Storage Tanks/Vessels	N/A	R5112-TK2067	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2067	Storage Tanks/Vessels	N/A	63CC-TK2067	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2068	Storage Tanks/Vessels	N/A	R5112-TK2068	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2068	Storage Tanks/Vessels	N/A	63CC-TK2068	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK 2069	Storage Tanks/Vessels	N/A	R5112-TK2069	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2069	Storage Tanks/Vessels	N/A	63CC-TK2069	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2073	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2073	Storage Tanks/Vessels	N/A	60QQQ-TK2073	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2074	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2074	Storage Tanks/Vessels	N/A	60QQQ-TK2074	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2075	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2075	Storage Tanks/Vessels	N/A	60QQQ-TK2075	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2075	Storage Tanks/Vessels	N/A	63CC-TK2075	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2076	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2076	Storage Tanks/Vessels	N/A	60QQQ-TK2076	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2076	Storage Tanks/Vessels	N/A	63CC-TK2076	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2077	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK 2077	Storage Tanks/Vessels	N/A	60QQQ-TK2077	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2077	Storage Tanks/Vessels	N/A	63CC-TK2077	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2078	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2078	Storage Tanks/Vessels	N/A	60QQQ-TK2078	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2078	Storage Tanks/Vessels	N/A	63CC-TK2078	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2085	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2085	Storage Tanks/Vessels	N/A	60QQQ-TK2085	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK 2093	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2093	Storage Tanks/Vessels	N/A	63CC-TK2093	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2094	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2094	Storage Tanks/Vessels	N/A	63CC-TK2094	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2096	Storage Tanks/Vessels	N/A	R5112-TK2096	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2096	Storage Tanks/Vessels	N/A	63CC-TK2096	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK 2097	Storage Tanks/Vessels	N/A	R5112-TK2097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2097	Storage Tanks/Vessels	N/A	63CC-TK2097	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2111	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2111	Storage Tanks/Vessels	N/A	63CC-TK2111	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2113	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2115	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2120	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2120	Storage Tanks/Vessels	N/A	63CC-TK2120	40 CFR Part 63, Subpart CC	No changing attributes.
TK 2121	Storage Tanks/Vessels	N/A	R5111	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK 2121	Storage Tanks/Vessels	N/A	63CC-TK2121	40 CFR Part 63, Subpart CC	No changing attributes.
TK00001	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK00003	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK00004	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK00013	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK01942	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK01942	Storage Tanks/Vessels	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
TK01943	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK02139	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK02139	Storage Tanks/Vessels	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
TK02140	Storage Tanks/Vessels	N/A	R5112-a1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK02140	Storage Tanks/Vessels	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
TK1930	Storage Tanks/Vessels	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK1930	Storage Tanks/Vessels	N/A	60Kb-01	40 CFR Part 60, Subpart Kb	No changing attributes.
TK1930	Storage Tanks/Vessels	N/A	60QQQ-01	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK1930	Storage Tanks/Vessels	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
TK2145	Storage Tanks/Vessels	N/A	R5112-02	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK2145	Storage Tanks/Vessels	N/A	60Kb-02	40 CFR Part 60, Subpart Kb	No changing attributes.
TK2145	Storage Tanks/Vessels	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
TK2148	Storage Tanks/Vessels	N/A	R5112-03	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK2148	Storage Tanks/Vessels	N/A	60QQQ-02	40 CFR Part 60, Subpart QQQ	No changing attributes.
TK2148	Storage Tanks/Vessels	N/A	63CC-02	40 CFR Part 63, Subpart CC	No changing attributes.
VPS5FE	Industrial Process Cooling Towers	N/A	63CC-VPS5FE	40 CFR Part 63, Subpart CC	No changing attributes.
VPS5H1/2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-VPS5H1/2	40 CFR Part 60, Subpart J	No changing attributes.
VPS5H1/2	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
VPS5H3/4	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-VPS5H3/4	40 CFR Part 60, Subpart J	No changing attributes.
VPS5H3/4	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
VPS5VAC1HT	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-VPS5VAC1HT	40 CFR Part 60, Subpart J	No changing attributes.
VPS5VAC1HT	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
VPS5VAC2HT	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-VPS5VAC2HT	40 CFR Part 60, Subpart J	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
VPS5VAC2HT	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
004TK001	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
BOILER 46	EP	R1111-BOILER 46	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
BOILER 46	EU	60Db-BOILER 46	SO ₂	40 CFR Part 60, Subpart Db	§ 60.104(a)(1) § 60.104 § 60.40b(c)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.105(e) § 60.105(e)(3)(ii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(e) § 60.107(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 46	EU	60Db-BOILER 46	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
BOILER 46	EU	60Db-BOILER 46	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
BOILER 46	EU	60Db-BOILER 46	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(l)(2) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Affected facilities with a low heat release rate and combusting natural gas or distillate oil in excess of 30% of the heat input from the combustion of all fuels, a limit determined by use of the specified formula.	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(i) § 60.49b(v) § 60.49b(w)
BOILER 46	EU	60J-BOILER 46	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 46	EU	63DDDDD-BLR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	R5322-CEPFUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(f) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in light liquid service complying with §60.482-2.	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(i) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for compressors complying with §60.482-3.	[G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(a) § 60.482-4(b)(1) [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pressure relief devices in gas/vapor service.	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-5 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for sampling connection systems complying with §60.482-5.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for open-ended valves or lines complying with §60.482-6.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in gas/vapor service or in light liquid service complying with §60.482-7.	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for flanges or other connectors complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pressure relief devices in light liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-10(b) § 60.482-10(e) § 60.482-10(m) § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for vapor recovery systems complying with §60.482-10.	§ 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-10(e) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(m) § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for closed vent (or vapor collection) systems complying with §60.482-10.	[G]§ 60.482-10(f) § 60.482-10(i) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.482-10(j) [G]§ 60.482-10(k) [G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) [G]§ 63.655(f)(1)(i)(C) [G]§ 63.655(f)(1)(i)(D)

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CEPFUG	EU	63CC-CEPFUG	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.648(g)	Compressors in hydrogen service are exempt from the requirements of §63.648(a) and (c), if an owner or operator demonstrates that a compressor is in hydrogen service. §63.648(g)(1)-(2).	[G]§ 63.648(g)	§ 63.648(h) § 63.655(d)(3) § 63.655(i)(5)	None
CRU5FE	EU	63CC-CRU5FE	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.654(a) § 63.640(h)(1)(ii)	Except as specified in paragraph (b) of this section, the owner or operator of a heat exchange system that meets the criteria in §63.640(c)(8) must comply with the requirements of paragraphs (c) through (g) of this section.	§ 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) [G]§ 63.654(c) [G]§ 63.654(d) § 63.654(e) [G]§ 63.654(f) [G]§ 63.654(g)	§ 63.642(e) § 63.655(h)(1) [G]§ 63.655(i)(4) § 63.655(i)(5)	§ 63.642(d)(2) § 63.642(f) § 63.655(f) § 63.655(f)(1)(vi) § 63.655(f)(4) § 63.655(g) [G]§ 63.655(g)(9) § 63.655(h)(1)
CRU5INTHT1	EU	60J-CRU5INTHT1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
CRU5INTHT1	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CRU5INTHT2	EU	60J-CRU5INTHT2	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
CRU5INTHT2	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
CRU5INTHT3	EU	60J-CRU5INTHT3	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
CRU5INTHT3	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CRU5PLATH T	EU	60J-CRU5PLA THT	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
CRU5PLATH T	EU	63DDDDDD -HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
DCU2ENG31 02	EU	60III-02	CO	40 CFR Part 60, Subpart III	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
DCU2ENG3102	EU	60III-02	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 75 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2013 model year must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102.	None	None	None
DCU2ENG3102	EU	60III-02	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
DCU2ENG3102	EU	60III-02	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2010 model year must comply with a PM emission limit of 0.20 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a).	None	None	None
DCU2ENG3102	EU	63ZZZ-03	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
DCU2ENG3124	EU	60III-02	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
DCU2ENG3124	EU	60III-02	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 75 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2013 model year must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
DCU2ENG3124	EU	60III-02	PM (Opacity)	40 CFR Part 60, Subpart III	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).	None	None	None
DCU2ENG3124	EU	60III-02	PM	40 CFR Part 60, Subpart III	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2010 model year must comply with a PM emission limit of 0.20 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a).	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
DCU2ENG3124	EU	63ZZZ-03	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
DCU2FE	EU	63CC-DCU2FE	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.654(a) § 63.640(h)(1)(ii)	Except as specified in paragraph (b) of this section, the owner or operator of a heat exchange system that meets the criteria in §63.640(c)(8) must comply with the requirements of paragraphs (c) through (g) of this section.	§ 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) [G]§ 63.654(c) [G]§ 63.654(d) § 63.654(e) [G]§ 63.654(f) [G]§ 63.654(g)	§ 63.642(e) § 63.655(h)(1) [G]§ 63.655(i)(4) § 63.655(i)(5)	§ 63.642(d)(2) § 63.642(f) § 63.655(f) § 63.655(f)(1)(vi) § 63.655(f)(4) § 63.655(g) [G]§ 63.655(g)(9) § 63.655(h)(1)
EDCU2	EU	R1111-EDCU2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EDCU2	CD	60A-EDCU2	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
EDCU2	EU	60Ja-1	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja
EHC2	EU	R1111-EHC2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
EHC2	CD	60A-EHC2	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EHCU2	EU	60Ja-1	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja
ESBU2	EU	R1111-ESBU2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
ESBU2	CD	60A-ESBU2	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
ESBU2	EU	60Ja-1	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EVPS5	EU	R1111-EVPS5	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
EVPS5	CD	60A-EVPS5	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
EVPS5	EU	60Ja-1	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-SW&RESEN	EU	60III-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
GRP-SW&RESEN	EU	60III-01	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 75 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2013 model year must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-SW&RESEN	EU	60III-01	PM (Opacity)	40 CFR Part 60, Subpart III	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).	None	None	None
GRP-SW&RESEN	EU	60III-01	PM	40 CFR Part 60, Subpart III	§ 60.4204(b) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218 § 89.112(a)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2010 model year must comply with a PM emission limit of 0.20 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a).	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-SW&RESEN	EU	63ZZZZ-02	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
GTG41	EU	60KKKK-GTG41	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4333(a) § 60.4335(b)(1) [G]§ 60.4345	Heat recovery units operating independent of the combustion turbine must meet the nitrogen oxides emission standard of 110 ng/J of useful output (0.86 lb/MWh).	§ 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(c) § 60.4350(e) § 60.4350(f) § 60.4350(f)(2) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GTG41	EU	60KKKK-GTG41	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(1) § 60.4333(a) [G]§ 60.4385	You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO ₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output, or	§ 60.4360 § 60.4370(b) § 60.4415(a) § 60.4415(a)(1) § 60.4415(a)(1)(ii)	§ 60.4370(b)	§ 60.4375(a)
GTG41	EU	63YYYY-GTG41	112(B) HAPS	40 CFR Part 63, Subpart YYYY	§ 63.6095(d)	If you start up a new or reconstructed stationary combustion turbine that is a lean premix gas-fired stationary combustion turbine or diffusion flame gas-fired stationary combustion turbine as defined by this subpart, you must comply with the Initial Notification requirements set forth in §63.6145 but need not comply with any other requirement of this subpart until EPA takes final action to require compliance.	None	None	§ 63.6145(a) § 63.6145(b) § 63.6145(c) § 63.6145(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GTG42	EU	60KKKK-GTG42	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4333(a) § 60.4335(b)(1) [G]§ 60.4345	Heat recovery units operating independent of the combustion turbine must meet the nitrogen oxides emission standard of 110 ng/J of useful output (0.86 lb/MWh).	§ 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(c) § 60.4350(e) § 60.4350(f) § 60.4350(f)(2) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395
GTG42	EU	60KKKK-GTG42	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(1) § 60.4333(a) [G]§ 60.4385	You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO ₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output, or	§ 60.4360 § 60.4370(b) § 60.4415(a) § 60.4415(a)(1) § 60.4415(a)(1)(ii)	§ 60.4370(b)	§ 60.4375(a)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GTG42	EU	63YYYY-GTG42	112(B) HAPS	40 CFR Part 63, Subpart YYYY	§ 63.6095(d)	If you start up a new or reconstructed stationary combustion turbine that is a lean premix gas-fired stationary combustion turbine or diffusion flame gas-fired stationary combustion turbine as defined by this subpart, you must comply with the Initial Notification requirements set forth in §63.6145 but need not comply with any other requirement of this subpart until EPA takes final action to require compliance.	None	None	§ 63.6145(a) § 63.6145(b) § 63.6145(c) § 63.6145(d)
GTG43	EU	60KKKK-GTG43	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4333(a) § 60.4335(b)(1) [G]§ 60.4345	Heat recovery units operating independent of the combustion turbine must meet the nitrogen oxides emission standard of 110 ng/J of useful output (0.86 lb/MWh).	§ 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(c) § 60.4350(e) § 60.4350(f) § 60.4350(f)(2) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GTG43	EU	60KKKK-GTG43	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(1) § 60.4333(a) [G]§ 60.4385	You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO ₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output, or	§ 60.4360 § 60.4370(b) § 60.4415(a) § 60.4415(a)(1) § 60.4415(a)(1)(ii)	§ 60.4370(b)	§ 60.4375(a)
GTG43	EU	63YYYY-GTG43	112(B) HAPS	40 CFR Part 63, Subpart YYYY	§ 63.6095(d)	If you start up a new or reconstructed stationary combustion turbine that is a lean premix gas-fired stationary combustion turbine or diffusion flame gas-fired stationary combustion turbine as defined by this subpart, you must comply with the Initial Notification requirements set forth in §63.6145 but need not comply with any other requirement of this subpart until EPA takes final action to require compliance.	None	None	§ 63.6145(a) § 63.6145(b) § 63.6145(c) § 63.6145(d)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GTG44	EU	60KKKK-GTG44	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4333(a) § 60.4335(b)(1) [G]§ 60.4345	Heat recovery units operating independent of the combustion turbine must meet the nitrogen oxides emission standard of 110 ng/J of useful output (0.86 lb/MWh).	§ 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(c) § 60.4350(e) § 60.4350(f) § 60.4350(f)(2) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395
GTG44	EU	60KKKK-GTG44	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(1) § 60.4333(a) [G]§ 60.4385	You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO ₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output, or	§ 60.4360 § 60.4370(b) § 60.4415(a) § 60.4415(a)(1) § 60.4415(a)(1)(ii)	§ 60.4370(b)	§ 60.4375(a)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GTG44	EU	63YYYY-GTG44	112(B) HAPS	40 CFR Part 63, Subpart YYYY	§ 63.6095(d)	If you start up a new or reconstructed stationary combustion turbine that is a lean premix gas-fired stationary combustion turbine or diffusion flame gas-fired stationary combustion turbine as defined by this subpart, you must comply with the Initial Notification requirements set forth in §63.6145 but need not comply with any other requirement of this subpart until EPA takes final action to require compliance.	None	None	§ 63.6145(a) § 63.6145(b) § 63.6145(c) § 63.6145(d)
HCU2DHTH1	EU	60J-HCU2DHT H1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HCU2DHTH1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HCU2H1A	EU	60J-HCU2H1A	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HCU2H1A	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
HCU2H1B	EU	60J-HCU2H1B	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HCU2H1B	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HCU2H2	EU	60J-HCU2H2	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HCU2H2	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
HRSG41	EU	60J-HRSG41	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HRSG42	EU	60J-HRSG42	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HRSG43	EU	60J-HRSG43	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HRSG44	EU	60J-HRSG44	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HTU6CHGH1	EU	60J-HTU6CHG H1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HTU6CHGH1	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HTU6CHGH2	EU	60J-HTU6CHG H2	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
HTU6CHGH2	EU	63DDDDD -HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
NHTU2CHT	EU	60J-NHTU2CH T	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
NHTU2CHT	EU	63DDDDD -HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
NHTU2SPLT	EU	60J-NHTU2SPLT	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
NHTU2SPLT	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
NHTU2STRP	EU	60J-NHTU2STRP	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
NHTU2STRP	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PAINT	PRO	R5420-PAINT	VOC	30 TAC Chapter 115, Surface Coating Operations	§ 115.420 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 115, Surface Coating Operations	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 115, Surface Coating Operations	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 115, Surface Coating Operations	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 115, Surface Coating Operations	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 115, Surface Coating Operations
PRO SRU 4	EU	R112-01	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
PRO SRU 4	EU	60J-02	SO ₂	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO ₂ at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PRO SRU 5-1	EU	112SRU5-1	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
PRO SRU 6-1	EU	112SRU6-1	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
PRO SRU 7-1	EU	112SRU7-1	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
PRO SRU2&3	EU	R112-01	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SCHCU2-5	EU	60J-SCHCU2-5	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
SCHCU2-5	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
SCRU5-1	EP	R1111-SCRU5-1	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SCRU5-2	EP	R1111-SCRU5-2	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SCRU5-3	EP	R1111-SCRU5-3	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) § 111.111(a)(2)	None	None
SCRU5-3	EU	63UUU-SCRU5-3	TOC	40 CFR Part 63, Subpart UUU	§ 63.1566(a)(1)(ii)-Table 15.2 § 63.1566(a)(1) § 63.1566(a)(2) § 63.1566(a)(3) § 63.1566(a)(4) § 63.1566(a)(5) § 63.1566(b)(3) § 63.1566(b)(4) § 63.1566(b)(4)(ii) § 63.1566(b)(6) § 63.1566(b)(6)-Table 19.2 § 63.1566(c)(1) § 63.1566(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	During initial catalyst depressuring and catalyst purging operations, emissions of TOC or nonmethane TOC from process vents must be reduced to a concentration of 20 ppmv (dry basis as hexane), corrected to 3% oxygen.	§ 63.1566(b)(1) § 63.1566(b)(2) § 63.1566(b)(2)-Table 18.2.a § 63.1566(b)(2)-Table 18.2.b § 63.1566(b)(2)-Table 18.2.d § 63.1566(b)(2)-Table 18.2.e § 63.1566(b)(2)-Table 18.2.f § 63.1566(b)(2)-Table 18.2.g § 63.1566(b)(2)-Table 18.2.i § 63.1566(c)(1)-Table 20.2 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) [G]§ 63.1572(d)	§ 63.1566(b)(2)-Table 18.2.i § 63.1566(c)(1)-Table 21.2.b § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1566(b)(7) § 63.1566(b)(8) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(b) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1 § 63.1574(d)-Table 42.2 § 63.1574(d)-Table 42.3 § 63.1574(f)(1) [G]§ 63.1574(f)(2) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SCRU5-3	EU	63UUU-SCRU5-3	HCL	40 CFR Part 63, Subpart UUU	§ 63.1567(a)(1)-Table 22.3 § 63.1567(a)(1) § 63.1567(a)(2) § 63.1567(a)(2)-Table 23.1 § 63.1567(a)(3) § 63.1567(b)(3) § 63.1567(b)(4) § 63.1567(b)(4)(i) § 63.1567(b)(5) § 63.1567(b)(5)-Table 26.2 § 63.1567(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	During coke burn-off and catalyst rejuvenation, emissions of HCL from CRU process vents, shall be reduced by 97 percent by weight.	§ 63.1567(b)(1) § 63.1567(b)(1)-Table 24.1 § 63.1567(b)(2) [G]§ 63.1567(b)(2)-Table 25.1 § 63.1567(b)(2)-Table 25.2.a.i § 63.1567(b)(2)-Table 25.2.b.i § 63.1567(c)(1)-Table 27.3 [G]§ 63.1567(c)(1)-Table 28.1 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) § 63.1572(c) § 63.1572(c)(1) § 63.1572(c)(2) § 63.1572(c)(3) § 63.1572(c)(4) [G]§ 63.1572(d)	§ 63.1567(b)(1)-Table 24.1 § 63.1567(b)(2)-Table 25.2.a.i § 63.1567(b)(2)-Table 25.2.b.i [G]§ 63.1567(c)(1)-Table 28.1 § 63.1567(c)(2) § 63.1570(c) § 63.1572(c)(4) § 63.1572(c)(5) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1567(b)(6) § 63.1567(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(b) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1 § 63.1574(d)-Table 42.2 § 63.1574(d)-Table 42.3 § 63.1574(f)(1) [G]§ 63.1574(f)(2) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SCRU5-3	EU	63UUU-SCRU5-3	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1569(a)(1)(iii)-Table 36.3 § 63.1569(a)(1) § 63.1569(a)(3) § 63.1569(b)(2) § 63.1569(b)(2)-Table 38.1.c § 63.1569(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	Bypass lines capable of diverting the vent stream away from a control device shall be sealed by installing a solid blind between piping flanges.	§ 63.1569(c)(1)-Table 39.3	§ 63.1569(c)(1)-Table 39.3 § 63.1569(c)(1)-Table 39.5 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1569(b)(3) § 63.1569(b)(4) § 63.1569(c)(1)-Table 39.5 § 63.1570(f) [G]§ 63.1574(a) § 63.1574(b) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1 § 63.1574(d)-Table 42.2 § 63.1574(d)-Table 42.3 § 63.1574(f)(1) [G]§ 63.1574(f)(2) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
SDCU2-1	EU	60J-SDCU2-1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SDCU2-1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
SDCU2-2	EU	60J-SDCU2-2	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
SDCU2-2	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
SDCU2-3	EU	60J-SDCU2-3	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SDCU2-3	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
SHCU2-5	EP	R1111-SHCU2-5	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SNHTU2-3	EP	R1111-SNHTU2-3	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SPS4-1	EP	R1111-SPS4-1	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SPS4-2	EP	R1111-SPS4-2	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SPS4-3	EP	R1111-SPS4-3	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SPS4-4	EP	R1111-SPS4-4	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SRU5	EU	60J-SRU5	SO ₂	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO ₂ at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SRU6	EU	60J-SRU6	SO ₂	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO ₂ at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
SRU7	EU	60J-SRU7	SO ₂	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO ₂ at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
STGTU1-1	EU	60J-03	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU1-1	EU	63UUU-01	SO ₂	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)-Table29.1.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table30.1 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5) § 63.1568(b)(5)-Table33.1.a § 63.1568(c)(1)-Table35.1 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing Claus SRU part of a sulfur recovery plant of 20 long tons per day or more and subject to NSPS for sulfur oxides in 40 CFR §60.104(a)(2), you must meet the emission limit for each process vent of 250ppmv (dry basis) of sulfur dioxide (SO ₂) at zero percent excess air if you use an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table31.1.a § 63.1568(c)(1)-Table34.1.a § 63.1572(a)(1)-Table40.4 § 63.1572(a)(1)-Table40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table31.1.a § 63.1568(c)(1)-Table34.1.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
STGTU1-2	EU	60J-04	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU1-2	EU	63DDDD D-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
STGTU2-1	EU	60J-03	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU2-1	EU	63UUU-01	SO ₂	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)-Table29.1.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table30.1 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5) § 63.1568(b)(5)-Table33.1.a § 63.1568(c)(1)-Table35.1 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing Claus SRU part of a sulfur recovery plant of 20 long tons per day or more and subject to NSPS for sulfur oxides in 40 CFR §60.104(a)(2), you must meet the emission limit for each process vent of 250ppmv (dry basis) of sulfur dioxide (SO ₂) at zero percent excess air if you use an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table31.1.a § 63.1568(c)(1)-Table34.1.a § 63.1572(a)(1)-Table40.4 § 63.1572(a)(1)-Table40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table31.1.a § 63.1568(c)(1)-Table34.1.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
STGTU2-2	EU	60J-04	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU2-2	EU	63DDDD D-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
STGTU5-1	EU	60J- STGTU5-1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU5-1	EU	63UUU-STGTU5-1	SO2	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)-Table 29.1.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table 30.1 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5)-Table 33.1.a § 63.1568(c)(1)-Table 35.1 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each Claus sulfur recovery unit part of a sulfur recovery plant of 20 long tons per day or more and subject to the NSPS for sulfur oxides in 40 CFR 60.104(a)(2), emissions from each process vent shall not exceed 250 ppmv (dry basis) of sulfur dioxide (SO2) at zero percent excess air if using an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table 31.1.a § 63.1568(c)(1)-Table 34.1.a § 63.1572(a)(1)-Table 40.4 § 63.1572(a)(1)-Table 40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table 31.1.a § 63.1568(c)(1)-Table 34.1.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1-3 § 63.1574(f)(1) § 63.1574(f)(2)(i) § 63.1574(f)(2)(ii) § 63.1574(f)(2)(ix) § 63.1574(f)(2)(viii) § 63.1574(f)(2)(x) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU5-1	EU	63UUU-STGTU5-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1569(a)(1)(iii)-Table 36.3 § 63.1569(a)(1) § 63.1569(a)(3) § 63.1569(b)(2) § 63.1569(b)(2)-Table 38.1.c § 63.1569(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	Bypass lines capable of diverting the vent stream away from a control device shall be sealed by installing a solid blind between piping flanges.	§ 63.1569(c)(1)-Table 39.3	§ 63.1569(c)(1)-Table 39.3 § 63.1569(c)(1)-Table 39.5 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1569(b)(3) § 63.1569(b)(4) § 63.1569(c)(1)-Table 39.5 § 63.1570(f) [G]§ 63.1574(a) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1-3 § 63.1574(f)(1) § 63.1574(f)(2)(i) § 63.1574(f)(2)(ii) § 63.1574(f)(2)(ix) § 63.1574(f)(2)(viii) § 63.1574(f)(2)(x) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
STGTU6-1	EU	60J-STGTU6-1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU6-1	EU	63UUU-STGTU6-1	SO2	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)-Table 29.1.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table 30.1 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5) Table 33.1.a § 63.1568(c)(1) § 63.1568(c)(1)-Table 35.1 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each Claus sulfur recovery unit part of a sulfur recovery plant of 20 long tons per day or more and subject to the NSPS for sulfur oxides in 40 CFR 60.104(a)(2), emissions from each process vent shall not exceed 250 ppmv (dry basis) of sulfur dioxide (SO2) at zero percent excess air if using an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table 31.1.a § 63.1568(c)(1)-Table 34.1.a § 63.1572(a)(1)-Table 40.4 § 63.1572(a)(1)-Table 40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table 31.1.a § 63.1568(c)(1)-Table 34.1.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1-3 § 63.1574(f)(1) § 63.1574(f)(2)(i) § 63.1574(f)(2)(ii) § 63.1574(f)(2)(ix) § 63.1574(f)(2)(viii) § 63.1574(f)(2)(x) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU6-1	EU	63UUU-STGTU6-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1569(a)(1)(iii)-Table 36.3 § 63.1569(a)(1) § 63.1569(a)(3) § 63.1569(b)(2) § 63.1569(b)(2)-Table 38.1.c § 63.1569(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	Bypass lines capable of diverting the vent stream away from a control device shall be sealed by installing a solid blind between piping flanges.	§ 63.1569(c)(1)-Table 39.3	§ 63.1569(c)(1)-Table 39.3 § 63.1569(c)(1)-Table 39.5 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1569(b)(3) § 63.1569(b)(4) § 63.1569(c)(1)-Table 39.5 § 63.1570(f) [G]§ 63.1574(a) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1-3 § 63.1574(f)(1) § 63.1574(f)(2)(i) § 63.1574(f)(2)(ii) § 63.1574(f)(2)(ix) § 63.1574(f)(2)(viii) § 63.1574(f)(2)(x) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
STGTU7-1	EU	60J-STGTU7-1	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU7-1	EU	63UUU-STGTU7-1	SO2	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)-Table 29.1.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table 30.1 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5) § 63.1568(b)(5)-Table 33.1.a § 63.1568(c)(1) § 63.1568(c)(1)-Table 35.1 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each Claus sulfur recovery unit part of a sulfur recovery plant of 20 long tons per day or more and subject to the NSPS for sulfur oxides in 40 CFR 60.104(a)(2), emissions from each process vent shall not exceed 250 ppmv (dry basis) of sulfur dioxide (SO2) at zero percent excess air if using an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table 31.1.a § 63.1568(c)(1)-Table 34.1.a § 63.1572(a)(1)-Table 40.4 § 63.1572(a)(1)-Table 40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table 31.1.a § 63.1568(c)(1)-Table 34.1.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1-3 § 63.1574(f)(1) § 63.1574(f)(2)(i) § 63.1574(f)(2)(ii) § 63.1574(f)(2)(ix) § 63.1574(f)(2)(viii) § 63.1574(f)(2)(x) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STGTU7-1	EU	63UUU-STGTU7-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1569(a)(1)(iii)-Table 36.3 § 63.1569(a)(1) § 63.1569(a)(3) § 63.1569(b)(2) § 63.1569(b)(2)-Table 38.1.c § 63.1569(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	Bypass lines capable of diverting the vent stream away from a control device shall be sealed by installing a solid blind between piping flanges.	§ 63.1569(c)(1)-Table 39.3	§ 63.1569(c)(1)-Table 39.3 § 63.1569(c)(1)-Table 39.5 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1569(b)(3) § 63.1569(b)(4) § 63.1569(c)(1)-Table 39.5 § 63.1570(f) [G]§ 63.1574(a) § 63.1574(c) § 63.1574(d) § 63.1574(d)-Table 42.1-3 § 63.1574(f)(1) § 63.1574(f)(2)(i) § 63.1574(f)(2)(ii) § 63.1574(f)(2)(ix) § 63.1574(f)(2)(viii) § 63.1574(f)(2)(x) § 63.1575(a) § 63.1575(a)-Table 43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
SVPS5-1	EP	R1111-SVPS5-1	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SVPS5-2	EP	R1111-SVPS5-2	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
TK 1908	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 1937	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 1937	EU	63CC-TK1937	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
TK 1938	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 1938	EU	61FF-TK1938	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(b)(2) § 61.340(d) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(b)(3) § 61.343(c) § 61.343(d)	The owner/operator shall install, operate, and maintain a fixed roof as specified in §61.343(a)(1)(i).	§ 61.343(a)(1)(i)(A) § 61.343(c)	§ 61.356(d) § 61.356(g)	None
TK 1939	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 1939	EU	61FF-TK1939	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(b)(2) § 61.340(d) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(b)(3) § 61.343(c) § 61.343(d)	The owner/operator shall install, operate, and maintain a fixed roof as specified in §61.343(a)(1)(i).	§ 61.343(a)(1)(i)(A) § 61.343(c)	§ 61.356(d) § 61.356(g)	None
TK 2067	EU	R5112-TK2067	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.112(a)(2)(F) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2067	EU	63CC-TK2067	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) § 63.119(c)(2) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
TK 2068	EU	R5112-TK2068	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.112(a)(2)(F) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2068	EU	63CC-TK2068	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) § 63.119(c)(2) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
TK 2069	EU	R5112-TK2069	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.112(a)(2)(F) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2069	EU	63CC-TK2069	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) § 63.119(c)(2) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
TK 2073	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2073	EU	60QQQ-TK2073	VOC	40 CFR Part 60, Subpart QQQ	§ 60.693-2(a) § 60.692-1(a) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b) § 60.693-2(a)(1) § 60.693-2(a)(1)(i) § 60.693-2(a)(1)(i)(B) § 60.693-2(a)(1)(i)(C) [G]§ 60.693-2(a)(1)(ii) § 60.693-2(a)(1)(iii) § 60.693-2(a)(1)(iv) § 60.693-2(a)(2) § 60.693-2(a)(3) § 60.693-2(a)(4) § 60.693-2(a)(5)(ii) § 60.693-2(c)	May elect to install a floating roof on an oil-water separator tank, slop oil tank or other auxiliary equipment subject to this subpart which meets the following specifications:	§ 60.693-2(a)(1)(iii)(A) § 60.693-2(a)(1)(iii)(B) § 60.693-2(a)(5)(i) § 60.696(a) [G]§ 60.696(d)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) [G]§ 60.697(k)	§ 60.693-2(b) § 60.698(a) § 60.698(b)(1) § 60.698(e)
TK 2074	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2074	EU	60QQQ-TK2074	VOC	40 CFR Part 60, Subpart QQQ	§ 60.693-2(a) § 60.692-1(a) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b) § 60.693-2(a)(1) § 60.693-2(a)(1)(i) § 60.693-2(a)(1)(i)(B) § 60.693-2(a)(1)(i)(C) [G]§ 60.693-2(a)(1)(ii) § 60.693-2(a)(1)(iii) § 60.693-2(a)(1)(iv) § 60.693-2(a)(2) § 60.693-2(a)(3) § 60.693-2(a)(4) § 60.693-2(a)(5)(ii) § 60.693-2(c)	May elect to install a floating roof on an oil-water separator tank, slop oil tank or other auxiliary equipment subject to this subpart which meets the following specifications:	§ 60.693-2(a)(1)(iii)(A) § 60.693-2(a)(1)(iii)(B) § 60.693-2(a)(5)(i) § 60.696(a) [G]§ 60.696(d)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) [G]§ 60.697(k)	§ 60.693-2(b) § 60.698(a) § 60.698(b)(1) § 60.698(e)
TK 2075	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2075	EU	60QQQ-TK2075	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-5(b) § 60.692-5(d) [G]§ 60.692-5(e) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.695(b) § 60.696(a) [G]§ 60.696(b)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) § 60.697(f)(3) § 60.697(f)(3)(i) § 60.697(f)(3)(iii) § 60.697(f)(3)(iv) § 60.697(f)(3)(v) § 60.697(f)(3)(vi) § 60.697(f)(3)(vii)	§ 60.695(b) § 60.698(b)(1) § 60.698(e)
TK 2075	EU	63CC-TK2075	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(e) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(d)(1) § 63.120(d)(1)(ii) § 63.120(d)(1)(iii)(A) § 63.120(d)(5) § 63.120(d)(7) § 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) § 63.646(b)(1)	§ 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(2) § 63.655(i)(5)	§ 63.120(d)(1)(ii)(B) § 63.120(d)(2) § 63.120(d)(2)(ii) [G]§ 63.120(d)(2)(iii) § 63.120(d)(3) § 63.120(d)(3)(i) § 63.120(d)(3)(ii) § 63.120(d)(4) § 63.642(d)(2) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(2) [G]§ 63.655(f)(3) § 63.655(f)(4) § 63.655(f)(6) [G]§ 63.655(g)(5) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2076	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2076	EU	60QQQ-TK2076	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-5(b) § 60.692-5(d) [G]§ 60.692-5(e) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.695(b) § 60.696(a) [G]§ 60.696(b)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) § 60.697(f)(3) § 60.697(f)(3)(i) § 60.697(f)(3)(iii) § 60.697(f)(3)(iv) § 60.697(f)(3)(v) § 60.697(f)(3)(vi) § 60.697(f)(3)(vii)	§ 60.695(b) § 60.698(b)(1) § 60.698(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2076	EU	63CC-TK2076	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(e) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(d)(1) § 63.120(d)(1)(ii) § 63.120(d)(1)(iii)(A) § 63.120(d)(5) § 63.120(d)(7) § 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) § 63.646(b)(1)	§ 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(2) § 63.655(i)(5)	§ 63.120(d)(1)(ii)(B) § 63.120(d)(2) § 63.120(d)(2)(ii) [G]§ 63.120(d)(2)(iii) § 63.120(d)(3) § 63.120(d)(3)(i) § 63.120(d)(3)(ii) § 63.120(d)(4) § 63.642(d)(2) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(2) [G]§ 63.655(f)(3) § 63.655(f)(4) § 63.655(f)(6) [G]§ 63.655(g)(5) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)
TK 2077	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2077	EU	60QQQ-TK2077	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-5(b) § 60.692-5(d) [G]§ 60.692-5(e) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.695(b) § 60.696(a) [G]§ 60.696(b)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) § 60.697(f)(3) § 60.697(f)(3)(i) § 60.697(f)(3)(iii) § 60.697(f)(3)(iv) § 60.697(f)(3)(v) § 60.697(f)(3)(vi) § 60.697(f)(3)(vii)	§ 60.695(b) § 60.698(b)(1) § 60.698(e)
TK 2077	EU	63CC-TK2077	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(e) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(d)(1) § 63.120(d)(1)(ii) § 63.120(d)(1)(iii)(A) § 63.120(d)(5) § 63.120(d)(7) § 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) § 63.646(b)(1)	§ 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(2) § 63.655(i)(5)	§ 63.120(d)(1)(ii)(B) § 63.120(d)(2) § 63.120(d)(2)(ii) [G]§ 63.120(d)(2)(iii) § 63.120(d)(3) § 63.120(d)(3)(i) § 63.120(d)(3)(ii) § 63.120(d)(4) § 63.642(d)(2) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(2) [G]§ 63.655(f)(3) § 63.655(f)(4) § 63.655(f)(6) [G]§ 63.655(g)(5) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2078	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2078	EU	60QQQ-TK2078	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-5(b) § 60.692-5(d) [G]§ 60.692-5(e) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.695(b) § 60.696(a) [G]§ 60.696(b)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) § 60.697(f)(3) § 60.697(f)(3)(i) § 60.697(f)(3)(iii) § 60.697(f)(3)(iv) § 60.697(f)(3)(v) § 60.697(f)(3)(vi) § 60.697(f)(3)(vii)	§ 60.695(b) § 60.698(b)(1) § 60.698(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2078	EU	63CC-TK2078	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(e) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(d)(1) § 63.120(d)(1)(ii) § 63.120(d)(1)(iii)(A) § 63.120(d)(5) § 63.120(d)(7) § 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) § 63.646(b)(1)	§ 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(2) § 63.655(i)(5)	§ 63.120(d)(1)(ii)(B) § 63.120(d)(2) § 63.120(d)(2)(ii) [G]§ 63.120(d)(2)(iii) § 63.120(d)(3) § 63.120(d)(3)(i) § 63.120(d)(3)(ii) § 63.120(d)(4) § 63.642(d)(2) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(2) [G]§ 63.655(f)(3) § 63.655(f)(4) § 63.655(f)(6) [G]§ 63.655(g)(5) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)
TK 2085	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2085	EU	60QQQ-TK2085	VOC	40 CFR Part 60, Subpart QQQ	§ 60.693-2(a) § 60.692-1(a) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b) § 60.693-2(a)(1) § 60.693-2(a)(1)(i) § 60.693-2(a)(1)(i)(B) § 60.693-2(a)(1)(i)(C) [G]§ 60.693-2(a)(1)(ii) § 60.693-2(a)(1)(iii) § 60.693-2(a)(1)(iv) § 60.693-2(a)(2) § 60.693-2(a)(3) § 60.693-2(a)(4) § 60.693-2(a)(5)(ii) § 60.693-2(c)	May elect to install a floating roof on an oil-water separator tank, slop oil tank or other auxiliary equipment subject to this subpart which meets the following specifications:	§ 60.693-2(a)(1)(iii)(A) § 60.693-2(a)(1)(iii)(B) § 60.693-2(a)(5)(i) § 60.696(a) [G]§ 60.696(d)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) [G]§ 60.697(k)	§ 60.693-2(b) § 60.698(a) § 60.698(b)(1) § 60.698(e)
TK 2093	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2093	EU	63CC-TK2093	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2094	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2094	EU	63CC-TK2094	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
TK 2096	EU	R5112-TK2096	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.112(a)(2)(F) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2096	EU	63CC-TK2096	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) § 63.119(c)(2) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
TK 2097	EU	R5112-TK2097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.112(a)(2)(F) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2097	EU	63CC-TK2097	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) § 63.119(c)(2) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
TK 2111	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2111	EU	63CC-TK2111	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2113	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2115	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2120	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK 2120	EU	63CC-TK2120	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
TK 2121	EU	R5111	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK 2121	EU	63CC-TK2121	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
TK00001	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK00003	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK00004	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK00013	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK01942	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK01942	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
TK01943	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK02139	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK02139	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK02140	EU	R5112-a1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK02140	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
TK1930	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(2) § 115.118(a)(5) § 115.118(a)(7)	None
TK1930	EU	60Kb-01	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK1930	EU	60QQQ-01	VOC	40 CFR Part 60, Subpart QQQ	§ 60.693-2(a) § 60.692-1(a) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b) § 60.693-2(a)(1) § 60.693-2(a)(1)(i) § 60.693-2(a)(1)(i)(B) § 60.693-2(a)(1)(i)(C) [G]§ 60.693-2(a)(1)(ii) § 60.693-2(a)(1)(iii) § 60.693-2(a)(1)(iv) § 60.693-2(a)(2) § 60.693-2(a)(3) § 60.693-2(a)(4) § 60.693-2(a)(5)(ii) § 60.693-2(c)	May elect to install a floating roof on an oil-water separator tank, slop oil tank or other auxiliary equipment subject to this subpart which meets the following specifications:	§ 60.693-2(a)(1)(iii)(A) § 60.693-2(a)(1)(iii)(B) § 60.693-2(a)(5)(i) § 60.696(a) [G]§ 60.696(d)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) [G]§ 60.697(k)	§ 60.693-2(b) § 60.698(a) § 60.698(b)(1) § 60.698(e)
TK1930	EU	61FF-01	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK2145	EU	R5112-02	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.112(a)(2)(F) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
TK2145	EU	60Kb-02	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK2145	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(2) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
TK2148	EU	R5112-03	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK2148	EU	60QQQ-02	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.696(a)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2)	§ 60.698(b)(1) § 60.698(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK2148	EU	63CC-02	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
VPS5FE	EU	63CC-VPS5FE	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.654(a) § 63.640(h)(1)(ii)	Except as specified in paragraph (b) of this section, the owner or operator of a heat exchange system that meets the criteria in §63.640(c)(8) must comply with the requirements of paragraphs (c) through (g) of this section.	§ 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4) [G]§ 63.654(c) [G]§ 63.654(d) § 63.654(e) [G]§ 63.654(f) [G]§ 63.654(g)	§ 63.642(e) § 63.655(h)(1) [G]§ 63.655(i)(4) § 63.655(i)(5)	§ 63.642(d)(2) § 63.642(f) § 63.655(f) § 63.655(f)(1)(vi) § 63.655(f)(4) § 63.655(g) [G]§ 63.655(g)(9) § 63.655(h)(1)
VPS5H1/2	EU	60J-VPS5H1/2	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
VPS5H1/2	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
VPS5H3/4	EU	60J-VPS5H3/4	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
VPS5H3/4	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
VPS5VAC1HT	EU	60J-VPS5VAC1HT	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
VPS5VAC1HT	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
VPS5VAC2HT	EU	60J-VPS5VAC2HT	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H ₂ S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
VPS5VAC2HT	EU	63DDDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Additional Monitoring Requirements

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CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 4	
Control Device ID No.: STGTU2-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum combustion temperature = 1200 degrees F	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 4	
Control Device ID No.: STGTU2-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: For stack flow rates less than or equal to 4000 scfm: Maximum SO ₂ in lb/hr = $123.4 + 0.091 \times (\text{stack effluent flowrate, scfm})$; For stack flow rates greater than 4000 scfm: Maximum SO ₂ in lb/hr = $0.614 \times (\text{stack effluent flowrate, scfm})^{0.8042}$	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 5-1	
Control Device ID No.: STGTU5-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112SRU5-1
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum combustion temperature = 1200 degrees F	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 5-1	
Control Device ID No.: STGTU5-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112SRU5-1
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: For stack flow rates less than or equal to 4000 scfm: Maximum SO ₂ in lb/hr = $123.4 + 0.091 \times (\text{stack effluent flowrate, scfm})$; For stack flow rates greater than 4000 scfm: Maximum SO ₂ in lb/hr = $0.614 \times (\text{stack effluent flowrate, scfm})^{0.8042}$	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 6-1	
Control Device ID No.: STGTU6-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112SRU6-1
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum combustion temperature = 1200 degrees F	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 6-1	
Control Device ID No.: STGTU6-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112SRU6-1
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: For stack flow rates less than or equal to 4000 scfm: Maximum SO ₂ in lb/hr = $123.4 + 0.091 \times (\text{stack effluent flowrate, scfm})$; For stack flow rates greater than 4000 scfm: Maximum SO ₂ in lb/hr = $0.614 \times (\text{stack effluent flowrate, scfm})^{0.8042}$	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 7-1	
Control Device ID No.: STGTU7-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112SRU7-1
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum combustion temperature = 1200 degrees F	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU 7-1	
Control Device ID No.: STGTU7-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112SRU7-1
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: For stack flow rates less than or equal to 4000 scfm: Maximum SO ₂ in lb/hr = $123.4 + 0.091 \times (\text{stack effluent flowrate, scfm})$; For stack flow rates greater than 4000 scfm: Maximum SO ₂ in lb/hr = $0.614 \times (\text{stack effluent flowrate, scfm})^{0.8042}$	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU2&3	
Control Device ID No.: STGTU1-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum combustion temperature is 1200 degrees F	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: PRO SRU2&3	
Control Device ID No.: STGTU1-1	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: For stack flow rates less than or equal to 4000 scfm: Maximum SO ₂ in lb/hr = $123.4 + 0.091 \times (\text{stack effluent flowrate, scfm})$; For stack flow rates greater than 4,000 scfm Maximum SO ₂ in lb/hr = $0.614 \times (\text{stack effluent flowrate, scfm})^{0.8042}$	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SCRU5-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SCRU5-1
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SCRU5-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SCRU5-2
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SHCU2-5	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SHCU2-5
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SNHTU2-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SNHTU2-3
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SPS4-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SPS4-1
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SPS4-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SPS4-2
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SPS4-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SPS4-3
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SPS4-4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SPS4-4
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SVPS5-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SVPS5-1
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SVPS5-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SVPS5-2
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity less than or equal to 15%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.</p>	

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The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
004TK001	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,000 gallons.
004TK001	N/A	40 CFR Part 63, Subpart CC	Tank does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
BOILER 46	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not burn liquid or solid fossil fuels.
BOILER 46	N/A	30 TAC Chapter 117, Subchapter B	New boiler placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
CEPFUG	N/A	40 CFR Part 60, Subpart GGG	Equipment leaks that are subject to standards promulgated before September 4, 2007 are required to comply only with the provisions specified in MACT CC.
CEPFUG	N/A	40 CFR Part 60, Subpart GGGa	Construction commenced prior to November 7, 2006.
CRU5FE	N/A	40 CFR Part 63, Subpart Q	Not operated with chromium-based water treatment chemicals on or after September 8, 1994.
CRU5INTHT1	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
CRU5INTHT1	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
CRU5INTHT1	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because it commenced construction before May 14, 2007.
CRU5INTHT2	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
CRU5INTHT2	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
CRU5INTHT2	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because it commenced construction before May 14, 2007.
CRU5INTHT3	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
CRU5INTHT3	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
CRU5INTHT3	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because it commenced construction before May 14, 2007.
CRU5PLATHT	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
CRU5PLATHT	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
CRU5PLATHT	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because it commenced construction before May 14, 2007.
DCU2ENG3102	N/A	30 TAC Chapter 117, Subchapter B	New unit placed into service after November 15, 1992, and not a functionally identical replacement.
DCU2ENG3124	N/A	30 TAC Chapter 117, Subchapter B	New unit placed into service after November 15, 1992, and not a functionally identical replacement.
DCU2FE	N/A	40 CFR Part 63, Subpart Q	Not operated with chromium-based water treatment chemicals on or after September 8, 1994.
FKARU3	N/A	40 CFR Part 63, Subpart CC	Cooling tower is not in organic HAP service.
FKARU3	N/A	40 CFR Part 63, Subpart Q	Cooling tower has not used compounds containing chromium on or after 9/8/1994.
GRP-SW&RESEN	RESENG1008, RESENG2005, SWENG0002, SWENG2001, SWENG9003, SWENG9012	30 TAC Chapter 117, Subchapter B	The stationary internal combustion engine has a horsepower rating of less than 300 hp.
GRP-SW&RESEN	RESENG1008, RESENG2005, SWENG0002, SWENG2001, SWENG9003, SWENG9012	40 CFR Part 60, Subpart JJJJ	Unit is not a spark ignition stationary internal combustion engine.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GTG41	N/A	30 TAC Chapter 117, Subchapter B	New turbine placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
GTG41	N/A	40 CFR Part 60, Subpart GG	Stationary combustion turbines regulated under NSPS KKKK are exempt from the requirements of NSPS GG.
GTG42	N/A	30 TAC Chapter 117, Subchapter B	New turbine placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
GTG42	N/A	40 CFR Part 60, Subpart GG	Stationary combustion turbines regulated under NSPS KKKK are exempt from the requirements of NSPS GG.
GTG43	N/A	30 TAC Chapter 117, Subchapter B	New turbine placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
GTG43	N/A	40 CFR Part 60, Subpart GG	Stationary combustion turbines regulated under NSPS KKKK are exempt from the requirements of NSPS GG.
GTG44	N/A	30 TAC Chapter 117, Subchapter B	New turbine placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GTG44	N/A	40 CFR Part 60, Subpart GG	Stationary combustion turbines regulated under NSPS KKKK are exempt from the requirements of NSPS GG.
HCU2DH1H1	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
HCU2DH1H1	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HCU2DH1H1	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
HCU2H1A	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
HCU2H1A	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HCU2H1A	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
HCU2H1B	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
HCU2H1B	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
HCU2H1B	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
HCU2H2	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
HCU2H2	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HCU2H2	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
HRSG41	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not burn liquid or solid fossil fuels.
HRSG41	N/A	30 TAC Chapter 117, Subchapter B	New boiler placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HRSG42	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not burn liquid or solid fossil fuels.
HRSG42	N/A	30 TAC Chapter 117, Subchapter B	New boiler placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
HRSG43	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not burn liquid or solid fossil fuels.
HRSG43	N/A	30 TAC Chapter 117, Subchapter B	New boiler placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HRSG44	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not burn liquid or solid fossil fuels.
HRSG44	N/A	30 TAC Chapter 117, Subchapter B	New boiler placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HTU6CHGH1	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
HTU6CHGH1	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HTU6CHGH1	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
HTU6CHGH2	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
HTU6CHGH2	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
HTU6CHGH2	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
NHTU2CHT	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
NHTU2CHT	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
NHTU2CHT	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
NHTU2SPLT	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
NHTU2SPLT	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
NHTU2SPLT	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
NHTU2STRP	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
NHTU2STRP	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
NHTU2STRP	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
PRO SRU 4	N/A	40 CFR Part 60, Subpart Ja	Unit commenced construction, modification or reconstruction prior to 5/14/2007.
PRO SRU 5-1	N/A	40 CFR Part 63, Subpart CC	Sulfur plant vents are not defined as affected sources under MACT CC.
PRO SRU 6-1	N/A	40 CFR Part 63, Subpart CC	Sulfur plant vents are not defined as affected sources under MACT CC.
PRO SRU 7-1	N/A	40 CFR Part 63, Subpart CC	Sulfur plant vents are not defined as affected sources under MACT CC.
PRO SRU2&3	N/A	40 CFR Part 60, Subpart J	Unit constructed or modified before 10/4/1976.
PS4FE	N/A	40 CFR Part 63, Subpart CC	This cooling tower is not in organic HAP service.
PS4FE	N/A	40 CFR Part 63, Subpart Q	Not operated with chromium-based water treatment chemicals on or after September 8, 1994.
SCHCU2-5	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
SCHCU2-5	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
SCHCU2-5	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
SCRU5-3	N/A	40 CFR Part 63, Subpart CC	Catalytic reformer vents are not affected sources under MACT CC.
SDCU2-1	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
SDCU2-1	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
SDCU2-1	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
SDCU2-2	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
SDCU2-2	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
SDCU2-2	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
SDCU2-3	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
SDCU2-3	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
SDCU2-3	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
SPS4-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion unit exhaust stream from a unit which is not used as a control device for any vent gas stream subject to 30 TAC Chapter 115, Division 2.
SPS4-1	N/A	40 CFR Part 63, Subpart CC	Vent does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
SPS4-2	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion unit exhaust stream from a unit which is not used as a control device for any vent gas stream subject to 30 TAC Chapter 115, Division 2.
SPS4-2	N/A	40 CFR Part 63, Subpart CC	Vent does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
SPS4-3	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion unit exhaust stream from a unit which is not used as a control device for any vent gas stream subject to 30 TAC Chapter 115, Division 2.
SPS4-3	N/A	40 CFR Part 63, Subpart CC	Vent does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
SPS4-4	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion unit exhaust stream from a unit which is not used as a control device for any vent gas stream subject to 30 TAC Chapter 115, Division 2.
SPS4-4	N/A	40 CFR Part 63, Subpart CC	Vent does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
STGTU1-1	N/A	30 TAC Chapter 111, Incineration	Incinerator does not burn domestic, municipal, commercial, or industrial solid waste.
STGTU1-2	N/A	30 TAC Chapter 112, Sulfur Compounds	Heater does not burn solid fossil fuel.
STGTU1-2	N/A	30 TAC Chapter 117, Subchapter B	Maximum rated capacity of heater is less than 40 MMBtu/hr.
STGTU2-1	N/A	30 TAC Chapter 111, Incineration	Incinerator does not burn domestic, municipal, commercial, or industrial solid waste.
STGTU2-2	N/A	30 TAC Chapter 112, Sulfur Compounds	Heater does not burn solid fossil fuel.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
STGTU2-2	N/A	30 TAC Chapter 117, Subchapter B	Maximum rated capacity of heater is less than 40 MMBtu/hr.
STGTU5-1	N/A	30 TAC Chapter 111, Incineration	Unit does not burn domestic, municipal, commercial, or industrial solid waste.
STGTU5-1	N/A	40 CFR Part 60, Subpart E	Unit does not burn solid waste; does not meet the definition of incinerator under NSPS E.
STGTU6-1	N/A	30 TAC Chapter 111, Incineration	Unit does not burn domestic, municipal, commercial, or industrial solid waste.
STGTU6-1	N/A	40 CFR Part 60, Subpart E	Unit does not burn solid waste; does not meet the definition of incinerator under NSPS E.
STGTU7-1	N/A	30 TAC Chapter 111, Incineration	Unit does not burn domestic, municipal, commercial, or industrial solid waste.
STGTU7-1	N/A	40 CFR Part 60, Subpart E	Unit does not burn solid waste; does not meet the definition of incinerator under NSPS E.
TK 1908	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 1908	N/A	40 CFR Part 63, Subpart CC	Tank does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
TK 1928	N/A	30 TAC Chapter 115, Storage of VOCs	Tank stores material containing no VOC.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK 1928	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 1928	N/A	40 CFR Part 63, Subpart CC	Tank does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
TK 1937	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 1938	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 1938	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater stream managed in a piece of equipment that is also subject to the provisions of 40 CFR Part 60, Subpart QQQ is required to comply only with 40 CFR Part 63, Subpart CC.
TK 1939	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 1939	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater stream managed in a piece of equipment that is also subject to the provisions of 40 CFR Part 60, Subpart QQQ is required to comply only with 40 CFR Part 63, Subpart CC.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK 2067	N/A	40 CFR Part 60, Subpart Kb	A Group 1 storage vessel, part of a new source, and subject to NSPS Kb is required to comply only with MACT CC.
TK 2068	N/A	40 CFR Part 60, Subpart Kb	A Group 1 storage vessel, part of a new source, and subject to NSPS Kb is required to comply only with MACT CC.
TK 2069	N/A	40 CFR Part 60, Subpart Kb	A Group 1 storage vessel, part of a new source, and subject to NSPS Kb is required to comply only with MACT CC.
TK 2073	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2073	N/A	40 CFR Part 63, Subpart CC	Wastewater storage tanks are excluded from the MACT CC definition of storage vessel. Tank does not contain a Group 1 wastewater stream subject to §63.647.
TK 2074	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2074	N/A	40 CFR Part 63, Subpart CC	Wastewater storage tanks are excluded from the MACT CC definition of storage vessel. Tank does not contain a Group 1 wastewater stream subject to §63.647.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK 2075	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2076	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2077	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2078	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2085	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2085	N/A	40 CFR Part 63, Subpart CC	Wastewater storage tanks are excluded from the MACT CC definition of storage vessel. Tank does not contain a Group 1 wastewater stream subject to §63.647.
TK 2093	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2094	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK 2096	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2097	N/A	40 CFR Part 60, Subpart Kb	A group 1 storage vessel, part of a new source, and subject to NSPS Kb is required to comply only with MACT CC.
TK 2111	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2113	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2113	N/A	40 CFR Part 63, Subpart CC	Tank does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
TK 2115	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK 2115	N/A	40 CFR Part 63, Subpart CC	Tank does not contain any of the hazardous air pollutants listed in Table 1 of MACT CC.
TK 2120	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK 2121	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than 39,900 gallons, but the true vapor pressure of the stored material is less than 0.5 psia.
TK00001	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK00001	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK00001	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 19,812 gallons.
TK00001	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK00001	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.
TK00001	N/A	40 CFR Part 63, Subpart CC	Storage tank does not meet the definition of a storage vessel because it has a design capacity less than 40 cubic meters (10,566 gallons).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK00001	N/A	40 CFR Part 63, Subpart EEEE	Stored material does not meet the definition of an organic liquid because it is a non-crude oil liquid or liquid mixture containing less than 5% HAPs by weight.
TK00001	N/A	40 CFR Part 63, Subpart R	Storage tank is not located at a gasoline distribution facility.
TK00003	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK00003	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK00003	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is < 19,812 gallons
TK00003	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK00003	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.
TK00003	N/A	40 CFR Part 63, Subpart CC	Storage tank does not meet the definition of a storage vessel because it has a design capacity less than 40 cubic meters (10,566 gallons).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK00003	N/A	40 CFR Part 63, Subpart EEEE	Stored material does not meet the definition of an organic liquid because it is a non-crude oil liquid or liquid mixture containing less than 5% HAPs by weight.
TK00003	N/A	40 CFR Part 63, Subpart R	Storage vessel is not located at a gasoline distribution facility.
TK00004	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK00004	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK00004	N/A	40 CFR Part 60, Subpart Kb	Storage tank capacity is less than 19,812 gallons.
TK00004	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK00004	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.
TK00004	N/A	40 CFR Part 63, Subpart CC	Storage tank does not meet the definition of a storage vessel because it has a design capacity less than 40 cubic meters (10,566 gallons).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK00004	N/A	40 CFR Part 63, Subpart EEEE	Stored material does not meet the definition of an organic liquid because it is a non-crude oil liquid or liquid mixture containing less than 5% HAPs by weight.
TK00004	N/A	40 CFR Part 63, Subpart R	Storage vessel is not located at a gasoline distribution facility.
TK00013	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK00013	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK00013	N/A	40 CFR Part 60, Subpart Kb	Storage tank capacity is less than 19,812 gallons.
TK00013	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK00013	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.
TK00013	N/A	40 CFR Part 63, Subpart CC	Storage tank does not meet the definition of a storage vessel because it has a design capacity less than 40 cubic meters (10,566 gallons).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK00013	N/A	40 CFR Part 63, Subpart EEEE	Stored material does not meet the definition of an organic liquid because it is a non-crude oil liquid or liquid mixture containing less than 5% HAPs by weight.
TK00013	N/A	40 CFR Part 63, Subpart R	Storage tank is not located at a gasoline distribution facility.
TK01942	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK01942	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK01942	N/A	40 CFR Part 60, Subpart Kb	Subpart Kb does not apply to storage vessels with a capacity greater than 151 cubic meters (39,889 gallons) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psia).
TK01942	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK01942	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK01942	N/A	40 CFR Part 63, Subpart EEEE	Stored material does not meet the definition of an organic liquid because it is a non-crude oil liquid or liquid mixture containing less than 5% HAPs by weight.
TK01942	N/A	40 CFR Part 63, Subpart R	Storage tank is not located at a gasoline distribution facility.
TK01943	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK01943	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK01943	N/A	40 CFR Part 60, Subpart Kb	Storage tank capacity is less than 19,812 gallons.
TK01943	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK01943	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.
TK01943	N/A	40 CFR Part 63, Subpart CC	Storage tank does not meet the definition of a storage vessel because it has a design capacity less than 40 cubic meters (10,566 gallons).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK01943	N/A	40 CFR Part 63, Subpart EEEE	Stored material does not meet the definition of an organic liquid because it is a non-crude oil liquid or liquid mixture containing less than 5% HAPs by weight.
TK01943	N/A	40 CFR Part 63, Subpart R	Storage tank is not located at a gasoline distribution facility.
TK02139	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK02139	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK02139	N/A	40 CFR Part 60, Subpart Kb	Storage tank has a capacity greater than 151 cubic meters (39,889 gallons) and stores a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psia).
TK02139	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK02139	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK02139	N/A	40 CFR Part 63, Subpart EEEE	Storage vessel is part of an affected source under another 40 CFR Part 63 (Subpart CC).
TK02139	N/A	40 CFR Part 63, Subpart R	Storage tank is not located at a gasoline distribution facility.
TK02140	N/A	40 CFR Part 60, Subpart K	Storage tank commenced construction/modification after 5/19/1978.
TK02140	N/A	40 CFR Part 60, Subpart Ka	Storage tank commenced construction/modification after 7/23/1984.
TK02140	N/A	40 CFR Part 60, Subpart Kb	Storage tank has a capacity greater than 151 cubic meters (39,889 gallons) and stores a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psia).
TK02140	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK02140	N/A	40 CFR Part 61, Subpart FF	Storage tank does not store benzene waste.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TK02140	N/A	40 CFR Part 63, Subpart EEEE	Storage vessel is part of an affected source under another 40 CFR Part 63 (Subpart CC).
TK02140	N/A	40 CFR Part 63, Subpart R	Storage tank is not located at a gasoline distribution facility.
TK1930	N/A	40 CFR Part 63, Subpart CC	Tank does not contain any of the hazardous air pollutants listed in Table 1 of 40 CFR Part 63, Subpart CC.
TK2145	N/A	40 CFR Part 60, Subpart QQQ	Ancillary equipment, which is physically separate from the wastewater system and does not come in contact with or store oily wastewater, is not subject to the requirements of Subpart QQQ.
TK2148	N/A	40 CFR Part 60, Subpart Kb	Storage tank has a capacity greater than 151 cubic meters (39,889 gallons) and stores a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psia).
VPS5FE	N/A	40 CFR Part 63, Subpart Q	Not operated with chromium-based water treatment chemicals on or after September 8, 1994.
VPS5H1/2	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
VPS5H1/2	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
VPS5H1/2	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
VPS5H3/4	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
VPS5H3/4	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
VPS5H3/4	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
VPS5VAC1HT	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.
VPS5VAC1HT	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
VPS5VAC1HT	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.
VPS5VAC2HT	N/A	30 TAC Chapter 112, Sulfur Compounds	The heater does not burn liquid fuels.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
VPS5VAC2HT	N/A	30 TAC Chapter 117, Subchapter B	New process heater placed into service after November 15, 1992 and not qualified as a functionally identical replacement for an existing unit.
VPS5VAC2HT	N/A	40 CFR Part 60, Subpart Ja	The heater is subject to NSPS J because construction commenced before May 14, 2007.

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New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: GHGPSDTX121	Issuance Date: 07/30/2015
PSD Permit No.: PSDTX1062M1	Issuance Date: 06/15/2016
PSD Permit No.: PSDTX1062M2	Issuance Date: 07/15/2016
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 6056	Issuance Date: 07/15/2016
Authorization No.: 8404	Issuance Date: 06/15/2016
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
004TK001	Tank 004TK001	6056, GHGPSDTX121, PSDTX1062M2
BOILER 46	Power Boiler 46	6056, GHGPSDTX121, PSDTX1062M2
CEPFUG	CEP Fugitive Emissions	6056, 106.262/11/01/2003, GHGPSDTX121, PSDTX1062M2
CRU5FE	CRU5 Cooling Tower	6056, GHGPSDTX121, PSDTX1062M2
CRU5INTHT1	#5 CRU Platformer No. 1 Intermediate Heater	6056, GHGPSDTX121, PSDTX1062M2
CRU5INTHT2	#5 CRU Platformer No. 2 Intermediate Heater	6056, GHGPSDTX121, PSDTX1062M2
CRU5INTHT3	#5 CRU Platformer No. 3 Intermediate Heater	6056, GHGPSDTX121, PSDTX1062M2
CRU5PLATHT	#5 CRU Platformer Heater	6056, GHGPSDTX121, PSDTX1062M2
DCU2ENG3102	DCU2 Engine 3102	106.512/06/13/2001
DCU2ENG3124	DCU2 Engine 3134	106.512/06/13/2001
DCU2FE	DCU2 Cooling Tower	6056, GHGPSDTX121, PSDTX1062M2
EDCU2	DCU No. 2 Flare Stack	6056, GHGPSDTX121, PSDTX1062M2
EHCU2	HCU No. 2 Flare Stack	6056, GHGPSDTX121, PSDTX1062M2
ESBU2	SBU2 Flare Stack	6056, GHGPSDTX121, PSDTX1062M2
EVPS5	VPS No. 5 Flare Stack	6056, GHGPSDTX121, PSDTX1062M2
FKARU3	ARU No. 3 Cooling Tower	6056, GHGPSDTX121, PSDTX1062M2
GTG41	Power Station No. 1 Gas Turbine	6056, GHGPSDTX121, PSDTX1062M2
GTG42	Power Station No. 2 Gas Turbine	6056, GHGPSDTX121, PSDTX1062M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
GTG43	Power Station No. 3 Gas Turbine	6056, GHGPSDTX121, PSDTX1062M2
GTG44	Power Station No. 4 Gas Turbine	6056, GHGPSDTX121, PSDTX1062M2
HCU2DH1H1	HCU No. 2 DHT Charge Heater	6056, GHGPSDTX121, PSDTX1062M2
HCU2H1A	HCU No. 2 1st Stage Charge Set A Heater	6056, GHGPSDTX121, PSDTX1062M2
HCU2H1B	HCU No. 2 1st Stage Charge Set B Heater	6056, GHGPSDTX121, PSDTX1062M2
HCU2H2	HCU2 No. 2 2nd Charge Heater	6056, GHGPSDTX121, PSDTX1062M2
HRSG41	PS4 Gas Turbine No. 1 HRSG With Duct Burner	6056, GHGPSDTX121, PSDTX1062M2
HRSG42	PS4 Gas Turbine No. 2 HRSG With Duct Burner	6056, GHGPSDTX121, PSDTX1062M2
HRSG43	PS4 Gas Turbine No. 3 HRSG With Duct Burner	6056, GHGPSDTX121, PSDTX1062M2
HRSG44	PS4 Gas Turbine No. 4 HRSG With Duct Burner	6056, GHGPSDTX121, PSDTX1062M2
HTU6CHGH1	HTU No. 6 Charge Heater 1	6056, GHGPSDTX121, PSDTX1062M2
HTU6CHGH2	HTU No. 6 Fractionator Reboiler	6056, GHGPSDTX121, PSDTX1062M2
NHTU2CHT	Naphtha Hydrotreater CHG HTR	6056, GHGPSDTX121, PSDTX1062M2
NHTU2SPLT	Naphtha Hydrotreater Splitter Reboiler	6056, GHGPSDTX121, PSDTX1062M2
NHTU2STRP	Naphtha Hydrotreater Stripper Reboiler	6056, GHGPSDTX121, PSDTX1062M2
PAINT	Miscellaneous (Maintenance) Painting	6056, GHGPSDTX121, PSDTX1062M2
PRO SRU 4	Sulfur Recovery Unit No. 4	6056, GHGPSDTX121, PSDTX1062M2
PRO SRU 5-1	Sulfur Recovery Process 5-1	6056, GHGPSDTX121, PSDTX1062M2
PRO SRU 6-1	Sulfur Recovery Process 6-1	6056, GHGPSDTX121, PSDTX1062M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PRO SRU 7-1	Sulfur Recovery Process 7-1	6056, GHGPSDTX121, PSDTX1062M2
PRO SRU2&3	Sulfur Recovery Unit Nos. 2 & 3	6056, GHGPSDTX121, PSDTX1062M2
PS4FE	Power Station Cooling Tower	6056, GHGPSDTX121, PSDTX1062M2
RESENG1008	RES 11 Engine 2	106.512/06/13/2001
RESENG2005	RES 11 Engine 1	106.512/06/13/2001
SCHCU2-5	HCU No. 2 Fractionator Heater	6056, GHGPSDTX121, PSDTX1062M2
SCRU5-1	#5 CRU Platformer No. 1 Intermediate Heater	6056, GHGPSDTX121, PSDTX1062M2
SCRU5-2	#5 CRU Platformer No. 3 Intermediate Heater	6056, GHGPSDTX121, PSDTX1062M2
SCRU5-3	Regenerator Vent Scrubber Emissions	6056, GHGPSDTX121, PSDTX1062M2
SDCU2-1	Coker Heater No. 1	6056, GHGPSDTX121, PSDTX1062M2
SDCU2-2	Coker Heater No. 2	6056, GHGPSDTX121, PSDTX1062M2
SDCU2-3	Coker Heater No. 3	6056, GHGPSDTX121, PSDTX1062M2
SHCU2-5	HCU No. 2 Fractionator Heater	6056, GHGPSDTX121, PSDTX1062M2
SNHTU2-3	Naphtha Hydrotreater Splitter Reboiler	6056, GHGPSDTX121, PSDTX1062M2
SPS4-1	Power Station No. 4 Cogen Unit 1	6056, GHGPSDTX121, PSDTX1062M2
SPS4-2	Power Station No. 4 Cogen Unit 2	6056, GHGPSDTX121, PSDTX1062M2
SPS4-3	Power Station No. 4 Cogen Unit 3	6056, GHGPSDTX121, PSDTX1062M2
SPS4-4	Power Station No. 4 Cogen Unit 4	6056, GHGPSDTX121, PSDTX1062M2
SRU5	Sulfur Recover Unit No. 5	6056, GHGPSDTX121, PSDTX1062M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SRU6	Sulfur Recover Unit No. 6	6056, GHGPSDTX121, PSDTX1062M2
SRU7	Sulfur Recover Unit No. 7	6056, GHGPSDTX121, PSDTX1062M2
STGTU1-1	Tail Gas Treating Unit Incinerator 1-1	6056, GHGPSDTX121, PSDTX1062M2
STGTU1-2	Hot Oil Heater 1-2	6056, GHGPSDTX121, PSDTX1062M2
STGTU2-1	Tail Gas Treating Unit Incinerator 2-1	6056, GHGPSDTX121, PSDTX1062M2
STGTU2-2	Hot Oil Heater 2-2	6056, GHGPSDTX121, PSDTX1062M2
STGTU5-1	Sulfur Recovery Process 5-1	6056, GHGPSDTX121, PSDTX1062M2
STGTU6-1	Sulfur Recovery Process 6-1	6056, GHGPSDTX121, PSDTX1062M2
STGTU7-1	Sulfur Recovery Process 7-1	6056, GHGPSDTX121, PSDTX1062M2
SVPS5-1	VPS No. 5, 1/2 and 3/4 Atmospheric Heaters	6056, GHGPSDTX121, PSDTX1062M2
SVPS5-2	VPS No. 5, No. 1 and 2 Vacuum Heaters	6056, GHGPSDTX121, PSDTX1062M2
SWENG0002	South Weir Engine 1	106.512/06/13/2001
SWENG2001	South Weir Engine 3	106.512/06/13/2001
SWENG9003	South Weir Engine 2	106.512/06/13/2001
SWENG9012	South Weir Engine 4	106.512/06/13/2001
TK 1908	Tank 1908	6056, GHGPSDTX121, PSDTX1062M2
TK 1928	Tank 1928	6056, GHGPSDTX121, PSDTX1062M2
TK 1937	Tank 1937	6056, GHGPSDTX121, PSDTX1062M2
TK 1938	Tank 1938	6056, GHGPSDTX121, PSDTX1062M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK 1939	Tank 1939	6056, GHGPSDTX121, PSDTX1062M2
TK 2067	Tank 2067	6056, GHGPSDTX121, PSDTX1062M2
TK 2068	Tank 2068	6056, GHGPSDTX121, PSDTX1062M2
TK 2069	Tank 2069	6056, GHGPSDTX121, PSDTX1062M2
TK 2073	Tank 2073	6056, GHGPSDTX121, PSDTX1062M2
TK 2074	Tank 2074	6056, GHGPSDTX121, PSDTX1062M2
TK 2075	Tank 2075	6056, GHGPSDTX121, PSDTX1062M2
TK 2076	Tank 2076	6056, GHGPSDTX121, PSDTX1062M2
TK 2077	Tank 2077	6056, GHGPSDTX121, PSDTX1062M2
TK 2078	Tank 2078	6056, GHGPSDTX121, PSDTX1062M2
TK 2085	Tank 2085	6056, GHGPSDTX121, PSDTX1062M2
TK 2093	Tank 2093	6056, GHGPSDTX121, PSDTX1062M2
TK 2094	Tank 2094	6056, GHGPSDTX121, PSDTX1062M2
TK 2096	Tank 2096	6056, GHGPSDTX121, PSDTX1062M2
TK 2097	Tank 2097	6056, GHGPSDTX121, PSDTX1062M2
TK 2111	Tank 2111	6056, GHGPSDTX121, PSDTX1062M2
TK 2113	Tank 2113	6056, GHGPSDTX121, PSDTX1062M2
TK 2115	Tank 2115	6056, GHGPSDTX121, PSDTX1062M2
TK 2120	Tank 2120	6056, GHGPSDTX121, PSDTX1062M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK 2121	Tank 2121	6056, GHGPSDTX121, PSDTX1062M2
TK00001	Storage Tank No. 1	106.472/09/04/2000
TK00003	Storage Tank No. 3	106.472/09/04/2000
TK00004	Storage Tank No. 4	106.472/09/04/2000
TK00013	Storage Tank No. 13	106.472/09/04/2000
TK01942	Storage Tank No. 1942	106.472/09/04/2000
TK01943	Storage Tank No. 1943	106.472/09/04/2000
TK02139	Storage Tank No. 2139	106.261/11/01/2003, 106.262/11/01/2003, 106.476/09/04/2000
TK02140	Storage Tank No. 2140	106.476/09/04/2000
TK1930	Amine Surge Tank 1930	6056, GHGPSDTX121, PSDTX1062M2
TK2145	Tank 2145	6056, GHGPSDTX121, PSDTX1062M2
TK2148	Tank 2148	106.263/11/01/2001, 106.478/09/04/2000
VPS5FE	VPS Cooling Tower	6056, GHGPSDTX121, PSDTX1062M2
VPS5H1/2	VPS No. 5, No. 1/2 Atmospheric Heater	6056, GHGPSDTX121, PSDTX1062M2
VPS5H3/4	VPS No. 5, No. 3/4 Atmospheric Heater	6056, GHGPSDTX121, PSDTX1062M2
VPS5VAC1HT	VPS No. 5, No. 1 Vacuum Heater	6056, GHGPSDTX121, PSDTX1062M2
VPS5VAC2HT	VPS No. 5, No. 2 Vacuum Heater	6056, GHGPSDTX121, PSDTX1062M2

Schedules

Compliance Schedule..... 178

Compliance Schedule

A. Compliance Schedule				
1. Specific Non-Compliance Situation				
Unit/Group/ Process ID. No(s).	SOP Index No.	Pollutant	Applicable Requirement	
			Citation	Text Description
TK-1928	N/A	H ₂ S, SO ₂	30 TAC §116.110(a)	Any person who plans to construct any new facility or to engage in the modification of any existing facility which may emit air contaminants must obtain a permit or satisfy conditions in 30 TAC chapter 116; 30 TAC chapter 106; or 30 TAC §116.119.
2. Compliance Status Assessment Method and Records Location				
Compliance Status Assessment Method			Location of Records/Documentation	
Citation	Text Description			
N/A	N/A		Environmental Electronic Files	
3. Non-compliance Situation Description				
Motiva failed to maintain sufficient vacuum on the eductor system to ensure emissions from the Sulfur Block Unit No. 2 Molten Storage Tank are controlled.				
4. Corrective Action Plan Description				
On March 2, 2016, Motiva submitted a permit amendment application for NSR Permit No. 6056 (TCEQ NSR Project No. 249368) to authorize emissions from the Sulfur Block Unit No. 2 Molten Storage Tank.				
5. List of Activities/Milestones to Implement the Corrective Action Plan				
1	Motiva shall respond completely and adequately, as determined by TCEQ, to all requests for information concerning the pending permit amendment application to authorize emissions from the Sulfur Block Unit No. 2 Molten Storage Tank within 30 days after the date of such requests, or by any other deadline specified in writing.			
2	By March 2, 2017, Motiva shall submit written certification to the TCEQ Audit Act Program, with a copy to the Director of the TCEQ Beaumont Regional Office, that either authorization for the emissions from the Sulfur Block Unit No. 2 Molten Storage Tank has been obtained or that operation of this unit has ceased until such time that appropriate authorization has been obtained.			
6. Previously Submitted Compliance Plan(s)		Type of Action		Date Submitted
		Compliance Agreement		3/ 2/2016
7. Progress Report Submission Schedule		No later than 6 months after issuance of the fop renewal and every six months thereafter		

Compliance Schedule

A. Compliance Schedule				
1. Specific Non-Compliance Situation				
Unit/Group/ Process ID. No(s).	SOP Index No.	Pollutant	Applicable Requirement	
			Citation	Text Description
EDCU2, EHCUC2, ESBU2, EVPS5, ECRU4, EFCCU1&2, EDCU1, EFCCU3, EHCUC, EHTU, EVPS4, POSCEPMN	N/A	H ₂ S	40 CFR §60.103a(f)	Modified flares shall comply with subpart J requirements in consent decree and also comply with §60.103a(h) and the requirements of §60.107a(a)(2) no later than 11/11/2015
2. Compliance Status Assessment Method and Records Location				
Compliance Status Assessment Method			Location of Records/Documentation	
Citation	Text Description			
N/A	N/A		Electronic Data Historian Server	
3. Non-compliance Situation Description				
Motiva failed to install the monitoring equipment for modified flares.				
4. Corrective Action Plan Description				
Motiva shall install the monitoring equipment required for modified flares in accordance with 40 CFR Part 60, Subpart Ja no later than November 11, 2016. Written certification must be submitted no later than December 11, 2016 in order to satisfy the Second Amended Compliance Agreement between the TCEQ and Motiva dated March 2, 2016.				
5. List of Activities/Milestones to Implement the Corrective Action Plan				
1	Motiva shall install the monitoring equipment required for modified flares in accordance with 40 CFR Part 60, Subpart Ja.			
2	Motiva shall submit written certification to the TCEQ Audit Act Program, with a copy to the Director of the TCEQ Beaumont Regional Office, demonstrating that the monitoring equipment required for modified flares in accordance with 40 CFR Part 60, Subpart Ja was installed by November 11, 2016.			
6. Previously Submitted Compliance Plan(s)		Type of Action		Date Submitted
		Compliance Agreement		3/ 2/2016
7. Progress Report Submission Schedule		No later than 6 months after issuance of the FOP renewal and every 6 months thereafter		

Appendix A

Acronym List	181
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Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
COMS	continuous opacity monitoring system
CVS	closed-vent system
D/FW	Dallas/Fort Worth (nonattainment area)
DR	Designated Representative
ELP	El Paso (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
GF	grandfathered
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MMBtu/hr	Million British thermal units per hour
MRRT	monitoring, recordkeeping, reporting, and testing
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PM	particulate matter
ppmv	parts per million by volume
PSD	prevention of significant deterioration
RO	Responsible Official
SO ₂	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound

Appendix B

Major NSR Summary Table	183
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Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FCOKE2	DCU Coke Handling ⁽⁵⁾	PM	0.01	0.01	39, 41	41, 59	
		PM ₁₀	0.01	0.01	39, 41	41, 59	
		PM _{2.5}	0.01	0.01	39, 41	41, 59	
FCOKEX	Coke Stockpile Surge Pad ⁽⁵⁾	PM	0.33	1.45	41, 42	41, 42, 59	42
		PM ₁₀	0.17	0.72	41, 42	41, 42, 59	42
		PM _{2.5}	0.17	0.72	41, 42	41, 42, 59	42
FKCRU5 FE	#5 CRU Cooling Tower	VOC	2.31	4.34	31	31, 59	31
		Benzene	0.01	0.01	31	31, 59	31
		Chlorine	0.28	1.25	31	31, 59	31
FKDCU2 FE	DCU 2 Cooling Tower	VOC	1.71	3.21	31	31, 59	31
		Benzene	0.01	0.01	31	31, 59	31
		Chlorine	0.21	0.92	31	31, 59	31
FKPS 4 FE	Power Station Cooling Tower	Chlorine	0.04	0.17			
FKVPS 5 FE	VPS Cooling Tower	VOC	1.64	3.07	31	31, 59	31
		Benzene	0.01	0.01	31	31, 59	31
		Chlorine	0.20	0.88	31	31, 59	31
FKARU3	ARU No. 3 Cooling Tower ⁽⁵⁾	VOC	0.01	0.04	31	31, 59	31
		Benzene	0.01	0.01	31	31, 59	31
		Chlorine	0.01	0.06	31	31, 59	31

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
EDCU2	DCU No. 2 Flare Stack	NO _x	0.03	0.11	5	5	
		VOC	0.01	0.01	5	5	
		SO ₂	0.01	0.01	5	5	
		CO	0.18	0.81	5	5	
EHCU2	HCU No. 2 Flare Stack	NO _x	0.02	0.09	5	5	
		VOC	0.01	0.01	5	5	
		SO ₂	0.01	0.01	5	5	
		CO	0.15	0.64	5	5	
EVPS5	VPS No. 5 Flare Stack	NO _x	0.02	0.07	5	5	
		VOC	0.01	0.01	5	5	
		SO ₂	0.01	0.01	5	5	
		CO	0.11	0.48	5	5	
ESBU2	SBU2 Flare Stack	NO _x	0.02	0.07	5	5	
		VOC	0.01	0.01	5	5	
		SO ₂	0.01	0.01	5	5	
		CO	0.11	0.48	5	5	
FARU1	ARU No. 1 Fugitive Emissions	VOC	0.14	0.63	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Benzene	0.01	0.01	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Hydrogen Sulfide	0.22	0.96	10, 29, 33	10, 29, 33, 59	
FARU2	ARU No. 2 Fugitive Emissions	VOC	0.08	0.33	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Benzene	0.01	0.01	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Hydrogen Sulfide	0.11	0.48	10, 29, 33	10, 29, 33, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FARU3	ARU No. 3 Fugitive Emissions	VOC	0.08	0.36	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Benzene	0.01	0.01	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Hydrogen Sulfide	0.08	0.37	10, 29, 33	10, 29, 33, 59	
FSWS1	ARU No. 3 Fugitive Emissions	VOC	0.01	0.01	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Hydrogen Sulfide	0.16	0.72	10, 11, 12, 13, 14, 15, 29, 33	10, 11, 12, 29, 33, 59	11, 12
		Ammonia	0.01	0.01	10, 34	10, 34, 59	
FARU4	ARU No. 4 Fugitive Emissions	VOC	0.14	0.16	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Benzene	0.01	0.01	10, 11, 12, 13, 14, 15	10, 11, 12, 59	11, 12
		Hydrogen Sulfide	0.04	0.17	10, 29, 33	10, 29, 33, 59	
FSRU2	SRU No. 2 Fugitive Emissions	SO ₂	0.01	0.04		59	
		Hydrogen Sulfide	0.01	0.05	29, 33	29, 33, 59	
FSRU3	SRU No. 3 Fugitive Emissions	SO ₂	0.01	0.04		59	
		Hydrogen Sulfide	0.01	0.05	29, 33	29, 33, 59	
FSRU4	SRU No. 4 Fugitive Emissions	SO ₂	0.06	0.24		59	
		Hydrogen Sulfide	0.06	0.26	29, 33	29, 33, 59	
CEP-FUG	Fugitives Group	VOC	33.61	147.66	10, 11, 12, 13, 15, 72	10, 11, 12, 13, 59	11, 12
		SO ₂	0.02	0.28		59	
		CO	0.02	0.09		59	
		Benzene	0.05	0.23	10, 11, 12, 13, 15, 72	10, 11, 12, 13, 59	11, 12
		Hydrogen Sulfide	0.74	3.26	10, 33, 72	10, 33, 59	
		Ammonia	0.01	0.01	10, 34, 72	10, 33, 34, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FTGTU1	Tail Gas Treating Unit No. 1 Incinerator Fugitives	SO ₂	0.01	0.03	7, 45	7, 45, 59	45
		CO	0.01	0.06	7, 45	7, 45, 59	45
		Hydrogen Sulfide	0.01	0.06	7, 29, 33, 45	7, 29, 33, 45, 59	45
FTGTU2	Tail Gas Treating Unit No. 2 Incinerator Fugitives	SO ₂	0.01	0.03	7, 45	7, 45, 59	45
		CO	0.02	0.07	7, 45	7, 45, 59	45
		Hydrogen Sulfide	0.01	0.07	7, 29, 33, 45	7, 29, 33, 45, 59	45
SCRU5-1	#5 CRU Platformer No. 1 Intermediate Heater	NO _x	17.33	42.66	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	2.67	2.30	7, 43, 44	7, 44, 59	44
		SO ₂	18.44	37.82	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	16.94	58.41	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	3.69	12.71	7, 43	7, 59	
		PM ₁₀	3.69	12.71	7, 43	7, 59	
		PM _{2.5}	3.69	12.71	7, 43	7, 59	
SCRU5-2	#5 CRU Platformer No. 2 Intermediate Heater	NO _x	12.39	27.51	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.91	1.48	7, 43, 44	7, 44, 59	44
		SO ₂	13.19	24.39	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	12.12	37.67	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	2.64	8.20	7, 43	7, 59	
		PM ₁₀	2.64	8.20	7, 43	7, 59	
		PM _{2.5}	2.64	8.20	7, 43	7, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121 Issuance Date: July 15, 2016							
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SCRU5-2	#5 CRU Platformer No. 3 Intermediate Heater	NO _x	7.70	21.04	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.19	1.13	7, 43, 44	7, 44, 59	44
		SO ₂	8.20	18.65	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	7.53	28.81	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	1.64	6.27	7, 43	7, 59	
		PM ₁₀	1.64	6.27	7, 43	7, 59	
		PM _{2.5}	1.64	6.27	7, 43	7, 59	
SNHTU2-1	Naphtha Hydrotreater Charge Heater	NO _x	7.25	19.88	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.12	2.14	7, 43, 44	7, 44, 59	44
		SO ₂	7.71	17.63	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	7.09	27.22	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	1.54	5.93	7, 43	7, 59	
		PM ₁₀	1.54	5.93	7, 43	7, 59	
		PM _{2.5}	1.54	5.93	7, 43	7, 59	
SCRU5-1	#5 CRU Platformer Heater	NO _x	13.93	38.15	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	2.15	2.06	7, 43, 44	7, 44, 59	44
		SO ₂	14.83	33.82	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	13.62	52.23	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	2.97	11.37	7, 43	7, 59	
		PM ₁₀	2.97	11.37	7, 43	7, 59	
		PM _{2.5}	2.97	11.37	7, 43	7, 59	
SHCU2-1	HCU No. 2 1 st Stage Charge Set A Heater	NO _x	2.32	6.66	7, 8, 43, 44, 45	7, 48, 49, 59	44, 45
		VOC	0.36	0.72	7, 43, 44	7, 44, 59	44
		SO ₂	2.47	5.91	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 45, 49
		CO	2.27	9.12	7, 8, 43, 44, 45	7, 44, 45, 59	44, 45

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		PM	0.49	1.99	7, 43	7, 59	
		PM ₁₀	0.49	1.99	7, 43	7, 59	
		PM _{2.5}	0.49	1.99	7, 43	7, 59	
SHCU2-2	HCU No. 2 1 st Stage Charge Set B Heater	NO _x	2.32	6.66	7, 8, 43, 44, 45	7, 44, 45, 59	44, 45
		VOC	0.36	0.72	7, 43, 44	7, 44, 59	44, 45
		SO ₂	2.47	5.91	7, 43, 44, 45, 48, 49	7, 44, 45, 48, 49, 59	44, 45, 49
		CO	2.27	9.12	7, 8, 43, 48, 49	7, 44, 45, 59	44, 45
		PM	0.49	1.99	7, 43, 44	7, 44, 59	44
		PM ₁₀	0.49	1.99	7, 43, 44	7, 44, 59	44
		PM _{2.5}	0.49	1.99	7, 43, 44	7, 44, 59	44
SHCU2-3	HCU No. 2 2 nd Charge Heater	NO _x	2.94	8.46	7, 8, 43, 44, 45	7, 44, 45, 59	44, 45
		VOC	0.45	0.91	7, 43, 44	7, 44, 59	44
		SO ₂	3.13	7.50	7, 43, 44, 45, 48, 49	7, 44, 45, 48, 49, 59	44, 45, 49
		CO	2.88	11.58	7, 8, 43, 48, 49	7, 44, 45, 59	44, 45
		PM	0.63	2.52	7, 43	7, 59	
		PM ₁₀	0.63	2.52	7, 43	7, 59	
		PM _{2.5}	0.63	2.52	7, 43	7, 59	
SHTU6-1	HTU No. 6 Charge Heater	NO _x	3.29	9.46	7, 8, 43, 44, 45	7, 44, 45, 59	44, 45
		VOC	0.51	1.02	7, 43, 44	7, 44, 59	44
		SO ₂	3.51	8.39	7, 43, 44, 45, 48, 49	7, 44, 45, 48, 49, 59	44, 45, 49
		CO	3.22	12.96	7, 8, 43, 48, 49	7, 44, 45, 59	44, 45
		PM	0.70	2.82	7, 43	7, 59	
		PM ₁₀	0.70	2.82	7, 43	7, 59	
		PM _{2.5}	0.70	2.82	7, 43	7, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHTU6-2	HTU No. 6 Fractionator Reboiler	NO _x	2.51	7.22	7, 8, 43, 44, 45	7, 44, 45, 59	44, 45
		VOC	0.39	0.78	7, 43, 44	7, 44, 59	44
		SO ₂	2.67	6.40	7, 43, 44, 45, 48, 49	7, 44, 45, 48, 49, 59	44, 45, 49
		CO	2.46	9.88	7, 8, 43, 48, 49	7, 44, 45, 59	44, 45
		PM	0.53	2.15	7, 43	7, 59	
		PM ₁₀	0.53	2.15	7, 43	7, 59	
		PM _{2.5}	0.53	2.15	7, 43	7, 59	
SHCU2-6	HCU No. 2 Fractionator Heater	NO _x	3.13	9.00	7, 8, 43, 44, 45	7, 44, 45, 59	44, 45
		VOC	0.48	0.97	7, 43, 44	7, 44, 59	44
		SO ₂	3.34	7.98	7, 43, 44, 45, 48, 49	7, 44, 45, 48, 49, 59	44, 45, 49
		CO	3.07	12.33	7, 8, 43, 48, 49	7, 44, 45, 59	44, 45
		PM	0.67	2.68	7, 43	7, 59	
		PM ₁₀	0.67	2.68	7, 43	7, 59	
		PM _{2.5}	0.67	2.68	7, 43	7, 59	
SHCU2-5	HCU No. 2 Fractionator Heater	NO _x	15.59	62.69	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	2.40	4.83	7, 43, 44	7, 44, 59	44
		SO ₂	16.59	39.70	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	15.25	61.31	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	3.32	13.35	7, 43	7, 59	
		PM ₁₀	3.32	13.35	7, 43	7, 59	
		PM _{2.5}	3.32	13.35	7, 43	7, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SDCU2-1	Coker Heater No. 1	NO _x	9.42	36.58	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.45	1.41	7, 43, 44	7, 44, 59	44
		SO ₂	10.02	23.16	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	9.21	35.77	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	2.00	7.79	7, 43	7, 59	
		PM ₁₀	2.00	7.79	7, 43	7, 59	
		PM _{2.5}	2.00	7.79	7, 43	7, 59	
SDCU2-2	Coker Heater No. 2	NO _x	9.42	36.58	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.45	1.41	7, 43, 44	7, 44, 59	44
		SO ₂	10.02	23.16	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	9.21	35.77	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	2.00	7.79	7, 43	7, 59	
		PM ₁₀	2.00	7.79	7, 43	7, 59	
		PM _{2.5}	2.00	7.79	7, 43	7, 59	
SDCU2-3	Coker Heater No. 3	NO _x	9.42	36.58	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.45	1.41	7, 43, 44	7, 44, 59	44
		SO ₂	10.02	23.16	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	9.21	35.77	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	2.00	7.79	7, 43	7, 59	
		PM ₁₀	2.00	7.79	7, 43	7, 59	
		PM _{2.5}	2.00	7.79	7, 43	7, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SVPS5-1	VPS No. 5, No. 1/2 Atmospheric Heater	NO _x	14.32	9.65	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	2.21	4.63	7, 43, 44	7, 44, 59	44
		SO ₂	15.24	38.02	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	14.00	58.72	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	3.05	12.78	7, 43	7, 59	
		PM ₁₀	3.05	12.78	7, 43	7, 59	
		PM _{2.5}	3.05	12.78	7, 43	7, 59	
		Ammonia	1.53	6.42	7, 43, 48, 49	7, 48, 49, 59	49
SVPS5-1	VPS No. 5, No. 3/4 Atmospheric Heater	NO _x	14.32	9.65	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	2.21	4.63	7, 43, 44	7, 48, 49, 59	44
		SO ₂	15.24	38.02	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	14.00	58.72	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	3.05	12.78	7, 43	7, 59	
		PM ₁₀	3.05	12.78	7, 43	7, 59	
		PM _{2.5}	3.05	12.78	7, 43	7, 59	
		Ammonia	1.53	6.42	7, 43, 48, 49	7, 48, 49, 59	49
SVPS5-2	VPS No. 5, No. 1 Vacuum Heater	NO _x	7.56	5.10	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.16	2.44	7, 43, 44	7, 44, 59	44
		SO ₂	8.05	20.09	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	7.39	31.02	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	1.61	6.75	7, 43	7, 59	
		PM ₁₀	1.61	6.75	7, 43	7, 59	
		PM _{2.5}	1.61	6.75	7, 43	7, 59	
		Ammonia	0.81	3.39	7, 43, 48, 49	7, 48, 49, 59	49

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SVPS5-2	VPS No. 5, No. 2 Vacuum Heater	NO _x	7.56	5.10	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.16	2.44	7, 43, 44	7, 44, 59	44
		SO ₂	8.05	20.09	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	7.39	31.02	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	1.61	6.75	7, 43	7, 59	
		PM ₁₀	1.61	6.75	7, 43	7, 59	
		PM _{2.5}	1.61	6.75	7, 43	7, 59	
		Ammonia	0.81	3.39	7, 43, 48, 49	7, 48, 49, 59	49
SNHTU2-2	Naphtha Hydrotreater Stripper Reboiler	NO _x	6.51	17.92	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.00	1.93	7, 43, 44	7, 44, 59	44
		SO ₂	6.93	15.89	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	6.37	24.53	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	1.39	5.34	7, 43	7, 59	
		PM ₁₀	1.39	5.34	7, 43	7, 59	
		PM _{2.5}	1.39	5.34	7, 43	7, 59	
SNHTU2-3	Naphtha Hydrotreater Stripper Reboiler	NO _x	10.40	28.32	7, 8, 43, 48, 49	7, 48, 49, 59	49
		VOC	1.60	3.05	7, 43, 44	7, 44, 59	44
		SO ₂	11.06	25.11	7, 43, 44, 48, 49	7, 44, 48, 49, 59	44, 49
		CO	10.17	38.78	7, 8, 43, 48, 49	7, 48, 49, 59	49
		PM	2.21	8.44	7, 43	7, 59	
		PM ₁₀	2.21	8.44	7, 43	7, 59	
		PM _{2.5}	2.21	8.44	7, 43	7, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
STGTU1-2	Hot Oil Heater	NO _x	0.53	1.21	46, 7	7, 46, 59	46
		VOC	0.03	0.07	46, 7	7, 46, 59	46
		SO ₂	0.20	0.27	46, 7	7, 46, 59	46
		CO	0.43	1.00	46, 7	7, 46, 59	46
		PM	0.04	0.09	46, 7	7, 46, 59	46
		PM ₁₀	0.04	0.09	46, 7	7, 46, 59	46
		PM _{2.5}	0.04	0.09	46, 7	7, 46, 59	46
STGTU2-2	Hot Oil Heater	NO _x	3.12	13.67	46, 7	7, 46, 59	46
		VOC	0.17	0.74	46, 7	7, 46, 59	46
		SO ₂	1.16	3.03	46, 7	7, 46, 59	46
		CO	2.57	11.25	46, 7	7, 46, 59	46
		PM	0.23	1.02	46, 7	7, 46, 59	46
		PM ₁₀	0.23	1.02	46, 7	7, 46, 59	46
		PM _{2.5}	0.23	1.02	46, 7	7, 46, 59	46
SCRU5-3	Regenerator Vent Scrubber Emissions	NO _x	2.28	10.00			
		SO ₂	1.59	6.96			
		PM	0.13	0.59			
		PM ₁₀	0.13	0.59			
		PM _{2.5}	0.13	0.59			
		HCl	0.07	0.30	47	47	
		Chlorine	0.01	0.06	47	47	
SSSCRUB	Sulfur Loading	Hydrogen Sulfide	0.16	0.71	22	22, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121				Issuance Date: July 15, 2016			
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
POSCEPMN	Maintenance Group after CEP ⁽⁶⁾	NO _x	899.31	18.37	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		VOC	3149.82	75.97	55, 56, 64, 65, 66	51, 53, 55, 56, 58, 59, 64, 65, 66, 67, 68	
		SO ₂	359.64	3.86	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		CO	2755.98	52.40	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		PM	66.98	1.51	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		PM ₁₀	66.98	1.51	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		PM _{2.5}	66.98	1.51	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		Benzene	4.15	0.30	55, 56, 64, 65, 66	51, 53, 55, 56, 58, 59, 64, 65, 66, 67, 68	
		H ₂ SO ₄	8.00	0.32	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		Hydrogen Sulfide	29.09	0.35	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
		Ammonia	13.81	0.43	55, 56, 66	51, 53, 55, 56, 58, 59, 66, 67, 68	
CGN-GRP	Cogen Unit Group ⁽⁶⁾	NO _x	74.21	272.81	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		VOC	10.64	39.55	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		SO ₂	78.68	161.45	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		CO	117.82	516.03	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		PM	101.87	391.33	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM ₁₀	101.87	391.33	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM _{2.5}	101.87	391.33	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGSPDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		H ₂ SO ₄	32.00	58.69	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		Ammonia	29.83	113.39	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 61
TNKGRP	Tank Group ⁽⁶⁾	VOC	69.00	40.20	3, 61, 62, 63	3, 59, 61, 62, 63	61, 62, 63
		Benzene	0.03	0.07	3, 61, 62, 63	3, 59, 61, 62, 63	61, 62, 63
SRUGRP	SRU Incinerators Group ⁽⁶⁾	NO _x	29.15	109.56	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
		VOC	1.86	7.08	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
		SO ₂	324.90	1351.64	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
		CO	56.86	236.54	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
		PM	2.58	9.78	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
		PM ₁₀	2.58	9.78	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
		PM _{2.5}	2.58	9.78	7, 18, 19, 20, 21, 22, 46	7, 19, 20, 21, 22, 46	46
SPS-LOV1	Power Station No. 4 Lube Oil Vent 1 ⁽⁵⁾	PM	0.05	0.22			
		PM ₁₀	0.05	0.22			
		PM _{2.5}	0.05	0.22			
SPS4-1	Power Station No. 4 Cogen Unit 1	NO _x	15.22	62.87	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		VOC	2.12	8.75	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		SO ₂	16.60	32.48	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		CO	27.80	114.81	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		PM	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM ₁₀	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM _{2.5}	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		H ₂ SO ₄	9.41	18.40	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		Ammonia	7.88	27.88	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 61

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGSPDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements Special Condition Nos.	Recordkeeping Requirements Special Condition Nos.	Reporting Requirements Special Condition Nos.
			lb/hr	tpy ⁽⁴⁾			
SPS-LOV2	Power Station No. 4 Lube Oil Vent 2 ⁽⁵⁾	PM	0.05	0.22			
		PM ₁₀	0.05	0.22			
		PM _{2.5}	0.05	0.22			
SPS4-2	Power Station No. 4 Cogen Unit 2	NO _x	15.22	62.87	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		VOC	2.12	8.75	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		SO ₂	16.60	32.48	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		CO	27.80	114.81	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		PM	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM ₁₀	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM _{2.5}	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		H ₂ SO ₄	9.41	18.40	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		Ammonia	7.88	27.88	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 61
SPS-LOV3	Power Station No. 4 Lube Oil Vent 3 ⁽⁵⁾	PM	0.05	0.22			
		PM ₁₀	0.05	0.22			
		PM _{2.5}	0.05	0.22			
SPS4-3	Power Station No. 4 Cogen Unit 3	NO _x	15.22	62.87	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		VOC	2.12	8.75	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		SO ₂	16.60	32.48	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		CO	27.80	114.81	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		PM	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM ₁₀	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM _{2.5}	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGSPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		H ₂ SO ₄	9.41	18.40	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		Ammonia	7.88	27.88	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 61
SPS-LOV4	Power Station No. 4 Lube Oil Vent 4 ⁽⁵⁾	PM	0.05	0.22			
		PM ₁₀	0.05	0.22			
		PM _{2.5}	0.05	0.22			
SPS4-4	Power Station No. 4 Cogen Unit 4	NO _x	15.22	62.87	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		VOC	2.12	8.75	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		SO ₂	16.60	32.48	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		CO	27.80	114.81	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 49, 61
		PM	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM ₁₀	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		PM _{2.5}	26.62	100.65	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		H ₂ SO ₄	9.41	18.40	32, 43, 44, 45, 61	32, 44, 45, 59, 61, 70	44, 45, 61
		Ammonia	7.88	27.88	32, 43, 44, 45, 48, 49, 61	32, 44, 45, 48, 49, 59, 61, 70	44, 45, 61
SPS4-6	Power Boiler 46	NO _x	20.86	39.16	8, 32, 43, 48, 49, 61	32, 48, 49, 59, 61	49, 61
		VOC	3.21	7.04	32, 43, 44, 61	32, 44, 59, 61	44, 61
		SO ₂	22.20	57.86	32, 43, 44, 48, 49, 61	32, 44, 48, 49, 59, 61	44, 49, 61
		CO	20.40	89.36	8, 32, 43, 48, 49, 61	32, 48, 49, 59, 61	49, 61
		PM	4.44	19.45	32, 43, 61	32, 59, 61	61
		PM ₁₀	4.44	19.45	32, 43, 61	32, 59, 61	61
		PM _{2.5}	4.44	19.45	32, 43, 61	32, 59, 61	61
		Ammonia	2.23	9.77	32, 43, 48, 49, 61	32, 48, 49, 59, 61	61
TK 2073	Storage TK2073	VOC	8.41	0.11	3, 59	3, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		Benzene	0.01	0.01	3, 59	3, 59	
TK 2074	Storage TK2074	VOC	8.41	0.11	3, 59	3, 59	
		Benzene	0.01	0.01	3, 59	3, 59	
TK 2093	Storage TK2093	VOC	11.89	9.03	3, 59	3, 59	
TK 2094	Storage TK2094	VOC	6.55	6.32	3, 59	3, 59	
TK 2085	Storage TK2085	VOC	8.68	0.06	3, 59	3, 59	
		Benzene	0.01	0.01	3, 59	3, 59	
TK 2097	Storage TK2097	VOC	1.64	6.26	3, 59	3, 59	
		Benzene	0.01	0.03	3, 59	3, 59	
TK 2096	Storage TK2096	VOC	1.64	6.26	3, 59	3, 59	
		Benzene	0.01	0.03	3, 59	3, 59	
TK 2069	Storage TK2069	VOC	4.60	11.39	3, 59	3, 59	
		Benzene	0.01	0.02	3, 59	3, 59	
TK 2067	Storage TK2067	VOC	4.60	11.39	3, 59	3, 59	
		Benzene	0.01	0.02	3, 59	3, 59	
TK 2068	Storage TK2068	VOC	4.60	11.39	3, 59	3, 59	
		Benzene	0.01	0.02	3, 59	3, 59	
TK 2110	DCU Quench Water Tank	VOC	0.01	0.10	3, 59	3, 59	
		Benzene	<0.01	<0.01	3, 59	3, 59	
TK 2111	Refinery Waste Tank	VOC	0.70	0.19	3, 59	3, 59	
TK 2113	Storage TK2113	VOC	0.07	0.05	3, 59	3, 59	
TK 2115	Storage TK2115	VOC	0.07	0.05	3, 59	3, 59	
TK2145	Storage TK2145	VOC	1.14	4.17	3, 59	3, 59	
		Benzene	0.01	0.01	3, 59	3, 59	

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
TK 1930	Amine Surge Tank 1930	VOC	0.07	0.01	3, 26, 59	3, 26, 27, 59	
TK 1937	Resid Tank	VOC	14.13	0.97	2, 59	2, 59	
004TK001	Storage Tank 004TK	VOC	0.03	0.01	3, 59	3, 59	
STGTU5-1	SRU5/TGTU5 Incinerator	NO _x	5.22	22.85	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		VOC	0.35	1.54	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		SO ₂	71.11	311.47	7, 19, 20, 21, 24, 45, 48, 49	7, 19, 20, 21, 22, 24, 25, 45, 48, 49, 59	45, 49
		CO	12.44	54.51	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM ₁₀	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM _{2.5}	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
STGTU6-1	SRU6/TGTU6 Incinerator	NO _x	5.22	22.85	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		VOC	0.35	1.54	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		SO ₂	71.11	311.47	7, 19, 20, 21, 24, 45, 48, 49	7, 19, 20, 21, 22, 24, 25, 45, 48, 49, 59	45, 49
		CO	12.44	54.51	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM ₁₀	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM _{2.5}	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
STGTU7-1	SRU7/TGTU7 Incinerator	NO _x	5.22	22.85	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		VOC	0.35	1.54	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		SO ₂	71.11	311.47	7, 19, 20, 21, 24, 45, 48, 49	7, 19, 20, 21, 22, 24, 25, 45, 48, 49, 59	45, 49
		CO	12.44	54.51	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM ₁₀	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM _{2.5}	0.49	2.13	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
FPS3	Power Station No. 3 Fugitive Emissions	VOC	2.20	9.50	10, 11, 12, 13, 15	10, 11, 12, 13, 59	11
STGTU1-1	SRU1/TGTU1 Incinerator	NO _x	6.00	18.22	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		VOC	0.40	1.23	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		SO ₂	62.22	236.83	7, 19, 20, 21, 24, 45, 48, 49	7, 19, 20, 21, 22, 24, 25, 45, 48, 49, 59	45, 49
		CO	10.89	41.45	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM	0.56	1.70	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM ₁₀	0.56	1.70	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM _{2.5}	0.56	1.70	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
STGTU2-1	SRU2/TGTU1 Incinerator	NO _x	7.50	22.78	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45

Major NSR Summary Table

Permit Numbers: 6056/PSDTX1062M2/GHGPSDTX121					Issuance Date: July 15, 2016		
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		VOC	0.40	1.23	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		SO ₂	62.22	236.83	7, 19, 20, 21, 24, 45, 48, 49	7, 19, 20, 21, 22, 24, 25, 45, 48, 49, 59	45, 49
		CO	10.89	41.45	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM	0.56	1.70	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM ₁₀	0.56	1.70	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45
		PM _{2.5}	0.56	1.70	7, 19, 20, 21, 24, 45	7, 19, 20, 21, 22, 24, 25, 45, 59	45

Footnotes:

- (1) Emission Point Identification – either specific equipment designation or emission point number from plot plan
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC – volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x – total oxides of nitrogen
 SO₂ – sulfur dioxide
 PM – total particulate matter, suspended in the atmosphere, include PM₁₀ and PM_{2.5}, as represented
 PM₁₀ – total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} – total particulate matter equal to or less than 2.5 microns in diameter
 CO – carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Refer to Attachment 10--Emission Groups for the specific EPNs, Facility Identification Numbers and source names included in each group.

Major NSR Summary Table

Permit Numbers: GHGPSDTX121		Issuance Date: July 30, 2015					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
CEP-FUG	Fugitives Group	CH ₄ ⁽⁵⁾	--	0.00			
		CO ₂ e	--	145.00			
SHCU2-1	HCU No. 2 1st Stage Charge Set A Heater	CO ₂ ⁽⁵⁾	--	10,960.00			
		CH ₄ ⁽⁵⁾	--	0.21			
		N ₂ O ⁽⁵⁾	--	0.02			
		CO ₂ e	--	10,971.00			
SHCU2-2	HCU No. 2 1st Stage Charge Set B Heater	CO ₂ ⁽⁵⁾	--	12,481.00			
		CH ₄ ⁽⁵⁾	--	0.24			
		N ₂ O ⁽⁵⁾	--	0.02			
		CO ₂ e	--	12,493.00			
SHCU2-3	HCU No. 2 2nd Charge Heater	CO ₂ ⁽⁵⁾	--	13,996.00			
		CH ₄ ⁽⁵⁾	--	0.26			
		N ₂ O ⁽⁵⁾	--	0.03			
		CO ₂ e	--	14,010.00			
SHCU2-5	HCU No. 2 Fractionator Heater	CO ₂ ⁽⁵⁾	--	82,923.00			
		CH ₄ ⁽⁵⁾	--	1.56			
		N ₂ O ⁽⁵⁾	--	0.16			
		CO ₂ e	--	83,008.00			
SHCU2-6	HCU No. 2 DHT Charge Heater	CO ₂ ⁽⁵⁾	--	12,011.00			
		CH ₄ ⁽⁵⁾	--	0.23			
		N ₂ O ⁽⁵⁾	--	0.02			
		CO ₂ e	--	12,024.00			
SCRU5-1	#5 CRU Platformer No. 1 Intermediate Heater	CO ₂ ⁽⁵⁾	--	27,067.00			
		CH ₄ ⁽⁵⁾	--	0.51			
		N ₂ O ⁽⁵⁾	--	0.05			

Major NSR Summary Table

Permit Numbers: GHGPSDTX121		Issuance Date: July 30, 2015					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		CO ₂ e	--	27,095.00			
SCRU5-2	#5 CRU Platformer No. 2 Intermediate Heater	CO ₂ ⁽⁵⁾	--	17,925.00			
		CH ₄ ⁽⁵⁾	--	0.34			
		N ₂ O ⁽⁵⁾	--	0.03			
		CO ₂ e	--	17,944.00			
SCRU5-2	#5 CRU Platformer No. 3 Intermediate Heater	CO ₂ ⁽⁵⁾	--	2,119.00			
		CH ₄ ⁽⁵⁾	--	0.04			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	2,121.00			
SCRU5-1	#5 CRU Platformer Heater	CO ₂ ⁽⁵⁾	--	31,497.00			
		CH ₄ ⁽⁵⁾	--	0.59			
		N ₂ O ⁽⁵⁾	--	0.06			
		CO ₂ e	--	31,529.00			
SVPS4-1	VPS No. 4, No. 3 Atmospheric Heater	CO ₂ ⁽⁵⁾	--	1,763.00			
		CH ₄ ⁽⁵⁾	--	0.03			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	1,764.00			
SVPS4-2	Atmospheric Heater No. 1	CO ₂ ⁽⁵⁾	--	2,087.00			
		CH ₄ ⁽⁵⁾	--	0.04			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	2,089.00			
SVPS4-3	Atmospheric Heater No. 2	CO ₂ ⁽⁵⁾	--	2,064.00			
		CH ₄ ⁽⁵⁾	--	0.04			
		N ₂ O ⁽⁵⁾	--	0.00			

Major NSR Summary Table

Permit Numbers: GHGPSDTX121		Issuance Date: July 30, 2015					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		CO ₂ e	--	2,066.00			
SVPS4-4	VPS No. 4 Naphtha Splitter Reboiler	CO ₂ ⁽⁵⁾	--	482.00			
		CH ₄ ⁽⁵⁾	--	0.01			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	483.00			
SVPS4-5	Vacuum Heater No. 1	CO ₂ ⁽⁵⁾	--	1,836.00			
		CH ₄ ⁽⁵⁾	--	0.03			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	1,838.00			
SVPS4-6	Vacuum Heater No. 2	CO ₂ ⁽⁵⁾	--	1,951.00			
		CH ₄ ⁽⁵⁾	--	0.04			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	1,953.00			
SMPU3-1	MPU Refined Oil Mix Heater	CO ₂ ⁽⁵⁾	--	1,615.00			
		CH ₄ ⁽⁵⁾	--	0.03			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	1,616.00			
SMPU3-2	MPU No. 3 Extract Heater	CO ₂ ⁽⁵⁾	--	3,272.00			
		CH ₄ ⁽⁵⁾	--	0.06			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	3,275.00			
SMPU4	MPU No. 4 Secondary Heater Stack	CO ₂ ⁽⁵⁾	--	77.00			
		CH ₄ ⁽⁵⁾	--	0.01			
		N ₂ O ⁽⁵⁾	--	0.00			

Major NSR Summary Table

Permit Numbers: GHGPSDTX121		Issuance Date: July 30, 2015					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		CO ₂ e	--	77.00			
SMPU4	MPU No. 4 R.O. Heater Stack	CO ₂ ⁽⁵⁾	--	398.00			
		CH ₄ ⁽⁵⁾	--	0.01			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	398.00			
SMPU4C	MPU No. 4 Extract Heater	CO ₂ ⁽⁵⁾	--	2,440.00			
		CH ₄ ⁽⁵⁾	--	0.05			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	2,443.00			
SHTU4-3	Reboiler Heater	CO ₂ ⁽⁵⁾	--	469.00			
		CH ₄ ⁽⁵⁾	--	0.01			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	469.00			
SHTU4-4	Recycle Gas Heater	CO ₂ ⁽⁵⁾	--	1,677.00			
		CH ₄ ⁽⁵⁾	--	0.03			
		N ₂ O ⁽⁵⁾	--	0.00			
		CO ₂ e	--	1,679.00			
SVPS5-1	VPS No. 5, No. 1/2 Atmospheric Heater	CO ₂ ⁽⁵⁾	--	18,498.00			
		CH ₄ ⁽⁵⁾	--	0.35			
		N ₂ O ⁽⁵⁾	--	0.03			
		CO ₂ e	--	18,517.00			
SVPS5-1	VPS No. 5, No. 3/4 Atmospheric Heater	CO ₂ ⁽⁵⁾	--	17,634.00			
		CH ₄ ⁽⁵⁾	--	0.33			
		N ₂ O ⁽⁵⁾	--	0.03			

Major NSR Summary Table

Permit Numbers: GHGPSDTX121		Issuance Date: July 30, 2015					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		CO ₂ e	--	17,653.00			
SVPS5-2	VPS No. 5, No. 1 Vacuum Heater	CO ₂ ⁽⁵⁾	--	7,820.00			
		CH ₄ ⁽⁵⁾	--	0.15			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	7,828.00			
SVPS5-2	VPS No. 5, No. 2 Vacuum Heater	CO ₂ ⁽⁵⁾	--	6,700.00			
		CH ₄ ⁽⁵⁾	--	0.13			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	6,707.00			
SDCU2-1	Coker Heater No. 1	CO ₂ ⁽⁵⁾	--	4,392.00			
		CH ₄ ⁽⁵⁾	--	0.08			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	4,397.00			
SDCU2-2	Coker Heater No. 2	CO ₂ ⁽⁵⁾	--	4,540.00			
		CH ₄ ⁽⁵⁾	--	0.09			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	4,545.00			
SDCU2-3	Coker Heater No. 3	CO ₂ ⁽⁵⁾	--	4,576.00			
		CH ₄ ⁽⁵⁾	--	0.09			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	4,581.00			
SNHTU2-1	Naphtha Hydrotreater Charge Heater	CO ₂ ⁽⁵⁾	--	3,268.00			
		CH ₄ ⁽⁵⁾	--	0.06			
		N ₂ O ⁽⁵⁾	--	0.01			

Major NSR Summary Table

Permit Numbers: GHGPSDTX121		Issuance Date: July 30, 2015					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		CO ₂ e	--	3,271.00			
SNHTU2-2	Naphtha Hydrotreater Stripper Reboiler	CO ₂ ⁽⁵⁾	--	6,153.00			
		CH ₄ ⁽⁵⁾	--	0.12			
		N ₂ O ⁽⁵⁾	--	0.01			
		CO ₂ e	--	6,159.00			
SNHTU2-3	Naphtha Hydrotreater Stripper Reboiler	CO ₂ ⁽⁵⁾	--	9,792.00			
		CH ₄ ⁽⁵⁾	--	0.18			
		N ₂ O ⁽⁵⁾	--	0.02			
		CO ₂ e	--	9,802.00			
SRUGRP	SRU Incinerators Group (SBU1 and SBU2)	CO ₂ ⁽⁵⁾	--	17,725.00			
		CH ₄ ⁽⁵⁾	--	0.18			
		N ₂ O ⁽⁵⁾	--	0.02			
		CO ₂ e	--	17,735.00			
CGN-GRP	Cogen Unit Group	CO ₂ ⁽⁵⁾	--	44,063.00			
		CH ₄ ⁽⁵⁾	--	0.83			
		N ₂ O ⁽⁵⁾	--	0.08			
		CO ₂ e	--	44,108.00			

Footnotes:

- (1) Emission Point Identification – either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) CO₂ – carbon dioxide
N₂O – nitrous oxide
CH₄ – methane
CO₂e – carbon dioxide equivalents based on the following Global Warming Potentials (11/2014): CO₂ (x), N₂O₂ (298), CH₄ (25), SF₆ (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

- (5) Emission rate is for the Hydrocracker 2/Diesel Hydrotreater Unit expansion project only and does not represent the total potential to emit (PTE) for the listed sources.

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FKCRU4	CRU 4 Cooling Tower ⁽⁵⁾	VOC	0.04	0.16	17, 18, 44	17, 18, 40, 44	18, 44
		Benzene	0.01	0.01	17, 18, 44	17, 18, 40, 44	18, 44
		Chlorine	0.06	0.27	17, 18, 44	17, 18, 40, 44	18, 44
FKFCCU1&2	Alky Cooling Tower ⁽⁵⁾	VOC	1.49	6.53	17, 18, 44	17, 18, 40, 44	18, 44
		Benzene	0.01	0.01	17, 18, 44	17, 18, 40, 44	18, 44
		Chlorine	0.18	0.81	17, 18, 44	17, 18, 40, 44	18, 44
FKFCCU3	FCCU 3 Cooling Tower ⁽⁵⁾	VOC	4.41	19.32	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.54	2.38	17, 44	17, 40, 44	44
FK33PH	No. 33PH East Cooling Tower ⁽⁵⁾	VOC	0.09	0.41	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.04	0.18	17, 44	17, 40, 44	44
FKDCU1	DCU 1 Cooling Tower ⁽⁵⁾	VOC	0.06	0.28	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.11	0.48	17, 44	17, 40, 44	44
FK33PH	No. 33PH West Cooling Tower ⁽⁵⁾	VOC	0.02	0.10	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.04	0.18	17, 44	17, 40, 44	44
FKMPU4	MPU No. 4 Cooling Tower ⁽⁵⁾	VOC	0.07	0.29	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.11	0.50	17, 44	17, 40, 44	44
FKHTU1&2	HTU No. 1 and 2 Cooling Tower ⁽⁵⁾	VOC	0.03	0.14	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.05	0.20	17, 44	17, 40, 44	44

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1			Issuance Date: June 15, 2016				
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FKHTU3	HTU No. 3 Cooling Tower ⁽⁵⁾	VOC	0.01	0.04	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.02	0.07	17, 44	17, 40, 44	44
FKMPU3	MPU No. 3 Cooling Tower ⁽⁵⁾	VOC	0.07	0.29	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.11	0.50	17, 44	17, 40, 44	44
FKHTU5	HTU5 Cooling Tower ⁽⁵⁾	VOC	0.28	1.25	19, 44	19, 40, 44	19, 44
FKVPS1	VPS No. 1 Cooling Tower ⁽⁵⁾	VOC	0.02	0.08	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.03	0.14	17, 44	17, 40, 44	44
FKVPS2	VPS No. 2 Cooling Tower ⁽⁵⁾	VOC	1.09	4.78	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.13	0.59	17, 44	17, 40, 44	44
FKVPS4	VPS No. 4 Cooling Tower ⁽⁵⁾	VOC	1.05	4.60	17, 44	17, 40, 44	44
		Benzene	0.01	0.01	17, 44	17, 40, 44	44
		Chlorine	0.13	0.57	17, 44	17, 40, 44	44
Combustion Sources							
SFCCU3-2	FCCU No. 3 Regenerator	NO _x	149.00	256.09	10, 22, 37, 38, 40, 44, 45	10, 22, 37, 38, 40, 44, 45	38, 44
		VOC	20.63	90.35	10, 22, 34, 40, 44	10, 22, 34, 40, 44	34, 44
		SO ₂	299.00	208.28	9, 10, 22, 34, 37, 38, 40, 44, 45	9, 10, 22, 34, 37, 38, 40, 44, 45	34, 38, 44
		CO	415.87	1821.49	10, 22, 37, 38, 40, 44, 45	10, 22, 37, 38, 40, 44, 45	38, 44
		PM	71.17	311.71	10, 22, 34, 39, 40, 44, 45	10, 22, 34, 39, 40, 44, 45	34, 39, 44
		PM ₁₀	71.17	311.71	10, 34, 39, 40, 44, 45	10, 34, 39, 40, 44, 45	34, 39, 44
		PM _{2.5}	71.17	311.71	10, 34, 39, 40, 44, 45	10, 34, 39, 40, 44, 45	34, 39, 44

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SCRU4-1	Combined Heater Stack **	NO _x	47.47	178.23	10, 37, 38, 40	10, 37, 38, 40	38
		VOC	4.27	16.02	10, 40	10, 40	
		SO ₂	29.47	65.84	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	65.16	244.63	10, 40	10, 40	
		PM	5.90	22.13	10, 40	10, 40	
		PM ₁₀	5.90	22.13	10, 40	10, 40	
		PM _{2.5}	5.90	22.13	10, 40	10, 40	
SCDHDS1	CDHDS1 Heater	NO _x	4.38	14.06	10, 40	10, 40	
		VOC	0.39	1.26	10, 40	10, 40	
		SO ₂	2.72	5.19	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	6.00	19.30	10, 40	10, 40	
		PM	0.54	1.75	10, 40	10, 40	
		PM ₁₀	0.54	1.75	10, 40	10, 40	
		PM _{2.5}	0.54	1.75	10, 40	10, 40	
SFCCU3-1	FCCU 3 Charge Heater	NO _x	9.91	25.31	10, 34, 40	10, 34, 40	34
		VOC	0.89	2.27	10, 40	10, 40	
		SO ₂	6.15	9.35	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	13.60	34.74	10, 34, 40	10, 34, 40	34
		PM	1.23	3.14	10, 40	10, 40	
		PM ₁₀	1.23	3.14	10, 40	10, 40	
		PM _{2.5}	1.23	3.14	10, 40	10, 40	

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHCU1-1	HCU No. 1 Reactor No. 1 Heater	NO _x	4.20	15.77	10, 34, 40	10, 34, 40	34
		VOC	0.28	1.06	10, 40	10, 40	
		SO ₂	1.96	4.37	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	4.32	16.23	10, 34, 40	10, 34, 40	34
		PM	0.39	1.47	10, 40	10, 40	
		PM ₁₀	0.39	1.47	10, 40	10, 40	
		PM _{2.5}	0.39	1.47	10, 40	10, 40	
SHCU1-2	HCU No. 1 Reactor No. 2 Heater	NO _x	5.32	19.97	10, 34, 40	10, 34, 40	34
		VOC	0.36	1.35	10, 40	10, 40	
		SO ₂	2.48	5.53	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	5.48	20.56	10, 34, 40	10, 34, 40	34
		PM	0.50	1.86	10, 40	10, 40	
		PM ₁₀	0.50	1.86	10, 40	10, 40	
		PM _{2.5}	0.50	1.86	10, 40	10, 40	
SHCU1-3	HCU No. 1 Preflash Boiler	NO _x	7.19	26.98	10, 34, 40	10, 34, 40	34
		VOC	0.48	1.82	10, 40	10, 40	
		SO ₂	3.35	7.48	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	7.40	27.77	10, 34, 40	10, 34, 40	34
		PM	0.67	2.51	10, 40	10, 40	
		PM ₁₀	0.67	2.51	10, 40	10, 40	
		PM _{2.5}	0.67	2.51	10, 40	10, 40	

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHCU1-4	HCU No. 1 Fractionator Boiler	NO _x	7.20	31.54	10, 34, 40	10, 34, 40	34
		VOC	0.49	2.13	10, 40	10, 40	
		SO ₂	3.35	8.74	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	7.41	32.46	10, 34, 40	10, 34, 40	34
		PM	0.67	2.94	10, 40	10, 40	
		PM ₁₀	0.67	2.94	10, 40	10, 40	
		PM _{2.5}	0.67	2.94	10, 40	10, 40	
SHTU1-1	HTU No. 1 Charge Heater	NO _x	2.45	9.20	10, 40	10, 40	
		VOC	0.22	0.83	10, 40	10, 40	
		SO ₂	1.52	3.40	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	3.36	12.62	10, 40	10, 40	
		PM	0.30	1.14	10, 40	10, 40	
		PM ₁₀	0.30	1.14	10, 40	10, 40	
		PM _{2.5}	0.30	1.14	10, 40	10, 40	
SHTU2-1	HTU No. 2 Charge Heater	NO _x	3.78	14.19	10, 34, 40	10, 34, 40	34
		VOC	0.34	1.28	10, 40	10, 40	
		SO ₂	2.35	5.24	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	5.19	19.48	10, 34, 40	10, 34, 40	34
		PM	0.47	1.76	10, 40	10, 40	
		PM ₁₀	0.47	1.76	10, 40	10, 40	
		PM _{2.5}	0.47	1.76	10, 40	10, 40	

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHTU2-2	HTU No. 2 Reboiler	NO _x	2.94	11.04	10, 34, 40	10, 34, 40	34
		VOC	0.26	0.99	10, 40	10, 40	
		SO ₂	1.83	4.08	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	4.04	15.15	10, 34, 40	10, 34, 40	34
		PM	0.37	1.37	10, 40	10, 40	
		PM ₁₀	0.37	1.37	10, 40	10, 40	
		PM _{2.5}	0.37	1.37	10, 40	10, 40	
SHTU3-1	HTU No. 3 Charge Heater	NO _x	4.21	15.79	10, 34, 40	10, 34, 40	34
		VOC	0.38	1.42	10, 40	10, 40	
		SO ₂	2.61	5.83	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	5.77	21.68	10, 34, 40	10, 34, 40	34
		PM	0.52	1.96	10, 40	10, 40	
		PM ₁₀	0.52	1.96	10, 40	10, 40	
		PM _{2.5}	0.52	1.96	10, 40	10, 40	
SHTU3-2	HTU No. 3 Reboiler	NO _x	4.23	14.48	10, 34, 40	10, 34, 40	34
		VOC	0.38	1.30	10, 40	10, 40	
		SO ₂	2.62	5.35	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	5.80	19.87	10, 34, 40	10, 34, 40	34
		PM	0.53	1.80	10, 40	10, 40	
		PM ₁₀	0.53	1.80	10, 40	10, 40	
		PM _{2.5}	0.53	1.80	10, 40	10, 40	

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHTU4-1	CHGE Heater 1	NO _x	3.83	9.15	10, 40	10, 40	
		VOC	0.21	0.49	10, 40	10, 40	
		SO ₂	1.43	2.03	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	3.15	7.54	10, 40	10, 40	
		PM	0.29	0.68	10, 40	10, 40	
		PM ₁₀	0.29	0.68	10, 40	10, 40	
		PM _{2.5}	0.29	0.68	10, 40	10, 40	
SHTU4-2	CHGE Heater 2	NO _x	3.83	9.15	10, 40	10, 40	
		VOC	0.21	0.49	10, 40	10, 40	
		SO ₂	1.43	2.03	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	3.15	7.54	10, 40	10, 40	
		PM	0.29	0.68	10, 40	10, 40	
		PM ₁₀	0.29	0.68	10, 40	10, 40	
		PM _{2.5}	0.29	0.68	10, 40	10, 40	
SHTU4-3	Reboiler Heater	NO _x	2.33	6.66	10, 40	10, 40	
		VOC	0.16	0.45	10, 40	10, 40	
		SO ₂	1.09	1.84	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	2.40	6.85	10, 40	10, 40	
		PM	0.22	0.62	10, 40	10, 40	
		PM ₁₀	0.22	0.62	10, 40	10, 40	
		PM _{2.5}	0.22	0.62	10, 40	10, 40	

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHTU4-4	Recycle Gas Heater	NO _x	8.22	28.17	10, 34, 40	10, 34, 40	34
		VOC	0.55	1.90	10, 40	10, 40	
		SO ₂	3.83	7.81	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	8.46	29.00	10, 34, 40	10, 34, 40	34
		PM	0.77	2.62	10, 40	10, 40	
		PM ₁₀	0.77	2.62	10, 40	10, 40	
		PM _{2.5}	0.77	2.62	10, 40	10, 40	
SHTU5	HTU5 Heater	NO _x	2.46	9.22	10, 34, 40	10, 34, 40	34
		VOC	0.38	1.42	10, 40	10, 40	
		SO ₂	2.61	5.84	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	2.56	9.62	10, 34, 40	10, 34, 40	34
		PM	0.52	1.96	10, 40	10, 40	
		PM ₁₀	0.52	1.96	10, 40	10, 40	
		PM _{2.5}	0.52	1.96	10, 40	10, 40	
SLCDU1-1	LCDU Charge Heater	NO _x	2.12	7.28	10, 40	10, 40	
		VOC	0.19	0.65	10, 40	10, 40	
		SO ₂	1.32	2.69	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	2.91	9.99	10, 40	10, 40	
		PM	0.26	0.90	10, 40	10, 40	
		PM ₁₀	0.26	0.90	10, 40	10, 40	
		PM _{2.5}	0.26	0.90	10, 40	10, 40	

Major NSR Summary Table

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SLCDU1-2	LCDU Charge Heater	NO _x	2.59	9.72	10, 40	10, 40	
		VOC	0.23	0.87	10, 40	10, 40	
		SO ₂	1.61	3.59	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	3.55	13.35	10, 40	10, 40	
		PM	0.32	1.21	10, 40	10, 40	
		PM ₁₀	0.32	1.21	10, 40	10, 40	
		PM _{2.5}	0.32	1.21	10, 40	10, 40	
SMPU3-1	MPU Refined Oil Mix Heater	NO _x	3.31	12.61	10, 34, 40	10, 34, 40	34
		VOC	0.22	0.85	10, 40	10, 40	
		SO ₂	1.54	3.49	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	3.41	12.99	10, 34, 40	10, 34, 40	34
		PM	0.31	1.17	10, 40	10, 40	
		PM ₁₀	0.31	1.17	10, 40	10, 40	
		PM _{2.5}	0.31	1.17	10, 40	10, 40	
SMPU3-2	MPU No. 3 Extract Heater	NO _x	8.94	34.02	10, 34, 40	10, 34, 40	34
		VOC	0.60	2.29	10, 40	10, 40	
		SO ₂	4.16	9.43	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	9.20	35.02	10, 34, 40	10, 34, 40	34
		PM	0.83	3.17	10, 40	10, 40	
		PM ₁₀	0.83	3.17	10, 40	10, 40	
		PM _{2.5}	0.83	3.17	10, 40	10, 40	

Major NSR Summary Table

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SMPU4	MPU 4 Secondary Heater Stack	NO _x	4.24	16.57	10, 34, 40	10, 34, 40	34
		VOC	0.29	1.12	10, 40	10, 40	
		SO ₂	1.97	4.59	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	4.36	17.06	10, 34, 40	10, 34, 40	34
		PM	0.39	1.54	10, 40	10, 40	
		PM ₁₀	0.39	1.54	10, 40	10, 40	
		PM _{2.5}	0.39	1.54	10, 40	10, 40	
SMPU4C	MPU No 4 Extract Heater	NO _x	9.07	39.74	10, 34, 40	10, 34, 40	34
		VOC	0.61	2.68	10, 40	10, 40	
		SO ₂	4.22	11.01	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	9.34	40.90	10, 34, 40	10, 34, 40	34
		PM	0.84	3.70	10, 40	10, 40	
		PM ₁₀	0.84	3.70	10, 40	10, 40	
		PM _{2.5}	0.84	3.70	10, 40	10, 40	
SCDHydro/ SCHDS2	CDHydro/CDHDS2 Heater	NO _x	3.67	13.05	10, 34, 40	10, 34, 40	34
		VOC	0.50	1.76	10, 40	10, 40	
		SO ₂	3.42	7.23	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	7.56	26.87	10, 34, 40	10, 34, 40	34
		PM	0.68	2.43	10, 40	10, 40	
		PM ₁₀	0.68	2.43	10, 40	10, 40	
		PM _{2.5}	0.68	2.43	10, 40	10, 40	

Major NSR Summary Table

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHCU1-5	HCU No. 1 Prefractionator Heater	NO _x	0.93	3.50	10, 34, 40	10, 34, 40	34
		VOC	0.25	0.94	10, 40	10, 40	
		SO ₂	1.74	3.88	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	3.84	14.43	10, 34, 40	10, 34, 40	34
		PM	0.35	1.31	10, 40	10, 40	
		PM ₁₀	0.35	1.31	10, 40	10, 40	
		PM _{2.5}	0.35	1.31	10, 40	10, 40	
SDCU1-1	Coker Heater No.1	NO _x	17.56	65.42	10, 40	10, 40	
		VOC	1.18	4.41	10, 40	10, 40	
		SO ₂	8.17	18.12	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	18.07	67.34	10, 40	10, 40	
		PM	1.64	6.09	10, 40	10, 40	
		PM ₁₀	1.64	6.09	10, 40	10, 40	
		PM _{2.5}	1.64	6.09	10, 40	10, 40	
SDCU1-2	Coker Heater No.2	NO _x	17.56	65.42	10, 34, 40	10, 34, 40	34
		VOC	1.18	4.41	10, 40	10, 40	
		SO ₂	8.17	18.12	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	18.07	67.34	10, 34, 40	10, 34, 40	34
		PM	1.64	6.09	10, 40	10, 40	
		PM ₁₀	1.64	6.09	10, 40	10, 40	
		PM _{2.5}	1.64	6.09	10, 40	10, 40	

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SHTU3-3	HTU No.3 Hydrogen Heater	NO _x	0.70	2.63	10, 40	10, 40	
		VOC	0.13	0.47	10, 40	10, 40	
		SO ₂	0.87	1.94	9, 10, 37, 38, 40	9, 10, 37, 38, 40	38
		CO	1.92	7.21	10, 40	10, 40	
		PM	0.17	0.65	10, 40	10, 40	
		PM ₁₀	0.17	0.65	10, 40	10, 40	
		PM _{2.5}	0.17	0.65	10, 40	10, 40	
SVPS2-1	VPS No.2 Common Heater Stack ***	NO _x	13.52	50.37	10, 11, 34, 37, 38, 40	10, 11, 34, 37, 38, 40	34, 38
		VOC	1.82	6.79	10, 40	10, 40	
		SO ₂	12.59	27.91	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	27.84	103.70	10, 34, 40	10, 34, 40	34
		PM	2.52	9.38	10, 40	10, 40	
		PM ₁₀	2.52	9.38	10, 40	10, 40	
		PM _{2.5}	2.52	9.38	10, 40	10, 40	
SVPS2-2	VPS No. 2, No. 4 Atmospheric Heater	NO _x	2.80	10.51	10, 34, 40	10, 34, 40	34
		VOC	0.38	1.42	10, 40	10, 40	
		SO ₂	2.61	5.82	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	5.76	21.64	10, 34, 40	10, 34, 40	34
		PM	0.52	1.96	10, 40	10, 40	
		PM ₁₀	0.52	1.96	10, 40	10, 40	
		PM _{2.5}	0.52	1.96	10, 40	10, 40	

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SVPS4-1	VPS No. 4, No. 3 Atmospheric Heater	NO _x	8.40	36.79	10, 34, 40	10, 34, 40	34
		VOC	0.75	3.31	10, 40	10, 40	
		SO ₂	5.22	13.59	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	11.53	50.50	10, 34, 40	10, 34, 40	34
		PM	1.04	4.57	10, 40	10, 40	
		PM ₁₀	1.04	4.57	10, 40	10, 40	
		PM _{2.5}	1.04	4.57	10, 40	10, 40	
SVPS4-4	VPS No. 4 Naphtha Splitter Reboiler	NO _x	3.48	15.24	10, 34, 40	10, 34, 40	34
		VOC	0.31	1.37	10, 40	10, 40	
		SO ₂	2.16	5.63	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	4.78	20.92	10, 34, 40	10, 34, 40	34
		PM	0.43	1.89	10, 40	10, 40	
		PM ₁₀	0.43	1.89	10, 40	10, 40	
		PM _{2.5}	0.43	1.89	10, 40	10, 40	
SVPS4-2	Atmospheric Heater No. 1 ⁽⁷⁾	NO _x	10.50		10, 34, 40	10, 34, 40	34
		VOC	0.94		10, 40	10, 40	
		SO ₂	6.52		9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	14.41		10, 34, 40	10, 34, 40	34
		PM	1.30		10, 40	10, 40	
		PM ₁₀	1.30		10, 40	10, 40	
		PM _{2.5}	1.30		10, 40	10, 40	

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SVPS4-3	Atmospheric Heater No. 2 ⁽⁷⁾	NO _x	10.50		10, 34, 40	10, 34, 40	34
		VOC	0.94		10, 40	10, 40	
		SO ₂	6.52		9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	14.41		10, 34, 40	10, 34, 40	34
		PM	1.30		10, 40	10, 40	
		PM ₁₀	1.30		10, 40	10, 40	
		PM _{2.5}	1.30		10, 40	10, 40	
SVPS4-5	Vacuum Heater No. 1	NO _x	8.70		10, 34, 40	10, 34, 40	34
		VOC	0.78		10, 40	10, 40	
		SO ₂	5.40		9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	11.94		10, 34, 40	10, 34, 40	34
		PM	1.08		10, 40	10, 40	
		PM ₁₀	1.08		10, 40	10, 40	
		PM _{2.5}	1.08		10, 40	10, 40	
SVPS4-6	Vacuum Heater No. 2	NO _x	8.70		10, 34, 40	10, 34, 40	34
		VOC	0.78		10, 40	10, 40	
		SO ₂	5.40		9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	11.94		10, 34, 40	10, 34, 40	34
		PM	1.08		10, 40	10, 40	
		PM ₁₀	1.08		10, 40	10, 40	
		PM _{2.5}	1.08		10, 40	10, 40	

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
SVPS4-7	Combined Heater Stack ^{(7), (8)}	NO _x	39.36	165.80	10, 34, 40	10, 34, 40	34
		VOC	3.54	15.49	10, 40	10, 40	
		SO ₂	24.44	63.68	9, 10, 34, 37, 38, 40	9, 10, 34, 37, 38, 40	34, 38
		CO	54.02	236.62	10, 34, 40	10, 34, 40	34
		PM	4.89	21.41	10, 40	10, 40	
		PM ₁₀	4.89	21.41	10, 40	10, 40	
		PM _{2.5}	4.89	21.41	10, 40	10, 40	
Loading Operations							
FLR39	Loading Rack No. 39	VOC	0.44	0.34	6, 40	6, 40	
Storage Tanks							
TK 1945	Storage Tank No. 1945	VOC	3.88	5.33	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TK 2040	Storage Tank No. 2040	VOC	1.82	1.87	3, 40, 44	3, 40, 44	44
TK 2041	Tank 2041	VOC	6.58	6.64	3, 40, 44	3, 40, 44	44
TAL35144	Fresh Caustic	VOC	0.01	0.01	3, 40	3, 40	
TAL35140	Fresh Sulfuric Acid Tank	H ₂ SO ₄	0.29	0.02	3, 40	3, 40	
TAL35141	Fresh Sulfuric Acid Tank	H ₂ SO ₄	0.29	0.02	3, 40	3, 40	
TFT12824	Storage Tank No. 12824	VOC	29.10	0.23	3, 40, 44	3, 40, 44	44
		Benzene	0.03	0.01	3, 40, 44	3, 40, 44	44
TML01247	Storage Tank No. 1247	VOC	5.08	8.87	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01248	Storage Tank No. 1248	VOC	6.16	8.48	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
TML01250	Storage Tank No. 1250	VOC	5.63	7.33	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01251	Storage Tank No. 1251	VOC	0.02	2.42	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01252	Storage Tank No. 1252	VOC	6.17	7.03	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01254	Storage Tank No. 1254	VOC	5.89	7.06	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01490	Storage Tank No. 1490	VOC	1.33	5.31	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.02	3, 40, 44	3, 40, 44	44
TML01524	Storage Tank No. 1524	VOC	4.59	7.22	3, 40, 44	3, 40, 44	44
TML01525	Storage Tank No. 1525	VOC	3.28	2.49	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01526	Storage Tank No. 1526	VOC	6.95	9.50	3, 40, 44	3, 40, 44	44
TML01663	Storage Tank No. 1663	VOC	6.94	5.27	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01698	Storage Tank No. 1698	VOC	4.83	13.04	3, 40, 42, 44	3, 40, 42, 44	42, 44
		Benzene	0.01	0.01	3, 40, 42, 44	3, 40, 42, 44	42, 44
TML01699	Storage Tank No. 1699	VOC	4.82	10.44	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TML01767	Storage Tank No. 1767	VOC	0.90	4.04	3, 40, 42, 44	3, 40, 42, 44	42, 44
		Benzene	0.01	0.03	3, 40, 42, 44	3, 40, 42, 44	42, 44
TML01768	Storage Tank No. 1768	VOC	0.89	3.77	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.03	3, 40, 44	3, 40, 44	44
TML01904	Storage Tank No. 1904	VOC	5.91	7.73	3, 40, 42, 44	3, 40, 42, 44	42, 44

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		Benzene	0.01	0.01	3, 40, 42, 44	3, 40, 42, 44	42, 44
TML19272	Storage Tank No. 19272	VOC	5.52	5.76	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TP108874	Storage Tank No. 8874	VOC	1.02	0.54	3, 40, 44	3, 40, 44	44
TP301697	Storage Tank No. 1697	VOC	2.13	1.55	3, 40, 44	3, 40, 44	44
TST01475	Storage Tank No. 1475	VOC	0.52	0.69	3, 40, 44	3, 40, 44	44
TST01510	Storage Tank No. 1510	VOC	1.36	4.87	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.02	3, 40, 44	3, 40, 44	44
TST01511	Storage Tank No. 1511	VOC	1.71	5.16	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.02	3, 40, 44	3, 40, 44	44
TST01552	Storage Tank No. 1552	VOC	14.24	4.71	3, 40, 44	3, 40, 44	44
TST01553	Storage Tank No. 1553	VOC	1.74	5.21	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.02	3, 40, 44	3, 40, 44	44
TST01600	Storage Tank No. 1600	VOC	2.55	2.42	3, 40, 44	3, 40, 44	44
TST01601	Storage Tank No. 1601	VOC	1.67	5.28	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.01	3, 40, 44	3, 40, 44	44
TST01671	Storage Tank No. 1671	VOC	0.81	2.55	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.02	3, 40, 44	3, 40, 44	44
TST01679	Storage Tank No. 1679	VOC	4.37	4.37	3, 40, 44	3, 40, 44	44
TST01712	Storage Tank No. 1712	VOC	1.75	4.04	3, 40, 44	3, 40, 44	44
TST01718	Storage Tank No. 1718	VOC	9.5	2.05	3, 40, 44	3, 40, 44	44
TST01719	Storage Tank No. 1719	VOC	9.5	2.05	3, 40, 44	3, 40, 44	44
TST01775	Storage Tank No. 1775	VOC	0.99	4.14	3, 40, 42, 44	3, 40, 42, 44	42, 44
		Benzene	0.01	0.02	3, 40, 42, 44	3, 40, 42, 44	42, 44

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Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
TST01787	Storage Tank No. 1787	VOC	2.85	2.47	3, 5, 40, 42, 44	3, 40, 42, 44	42, 44
TST01885	Storage Tank No. 1885	VOC	0.80	4.03	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
		Benzene	0.01	0.02	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
TST01886	Storage Tank No. 1886	VOC	2.12	8.70	3, 40, 42, 44	3, 40, 42, 44	42, 44
		Benzene	0.01	0.06	3, 40, 42, 44	3, 40, 42, 44	42, 44
TST01893	Storage Tank No. 1893	VOC	5.36	6.67	3, 40, 44	3, 40, 44	44
TST01894	Storage Tank No. 1894	VOC	4.55	7.91	3, 40, 44	3, 40, 44	44
TST01895	Storage Tank No. 1895	VOC	1.17	4.04	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
		Benzene	0.01	0.02	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
TST01913	Storage Tank No. 1913	VOC	0.66	2.61	3, 40, 42, 44	3, 40, 42, 44	42, 44
		Benzene	0.01	0.02	3, 40, 42, 44	3, 40, 42, 44	42, 44
TST01920	Storage Tank No. 1920	VOC	1.04	3.18	3, 5, 40, 42, 44	3, 40, 42, 44	42, 44
		Benzene	0.01	0.01	3, 5, 40, 42, 44	3, 40, 42, 44	42, 44
TST01932	Storage Tank No. 1932	VOC	3.17	1.73	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
TST01933	Storage Tank No. 1933	VOC	3.17	1.73	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
TST01934	Storage Tank No. 1934	VOC	3.17	1.73	3, 40, 42, 44, 46	3, 40, 42, 44, 46	42, 44, 46
TK2140	Storage Tank 2140	VOC	0.01	0.01	3, 40, 44	3, 40, 44	44
TK2127	Storage Tank 2127	VOC	22.21	0.56	3, 4, 5, 40, 44	3, 4, 40, 44	44
TST19194	Storage Tank No. 19194	VOC	1.09	4.87	3, 40, 44	3, 40, 44	44
		Benzene	0.01	0.03	3, 40, 44	3, 40, 44	44
TST21657	Storage Tank No. 21657	VOC	4.37	4.29	3, 40, 44	3, 40, 44	44
TST21774	Storage Tank No. 21774	VOC	4.82	5.92	3, 40, 44	3, 40, 44	44
TST21775	Storage Tank No. 21775	VOC	4.82	4.36	3, 40, 44	3, 40, 44	44

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			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
TVA01820	Storage Tank 1820	VOC	0.01	0.01	3, 40, 44	3, 40, 44	44
TVA01821	Storage Tank 1821	VOC	0.05	0.04	3, 40, 44	3, 40, 44	44
TNKGRP2	Tank Group ⁽⁶⁾	VOC	190.4	161.75	3, 40, 42, 43, 44	3, 40, 42, 43, 44	42, 43, 44
		Benzene	0.18	0.29	3, 40, 42, 43, 44	3, 40, 42, 43, 44	42, 43, 44
		H ₂ SO ₄	0.59	0.03	3, 40	3, 40	
Vents							
SCRU4-2	Regenerator Vent Scrubber Emissions	NO _x	0.97	4.25			
		SO ₂	0.67	2.96			
		PM	0.06	0.26			
		PM ₁₀	0.06	0.26			
		PM _{2.5}	0.06	0.26			
		HCl	0.06	0.24	36, 44	36, 44	44
		Chlorine	0.01	0.05	36, 44	36, 44	44
SVVMPU3-3	MPU No. 3 Vacuum System Emissions	VOC	1.50	6.60			
Fugitive Emissions							
CAS	CAS Fugitive Emissions ⁽⁵⁾	VOC	0.07	0.30	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 42, 44	42, 44
		Benzene	<0.01	<0.01	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
FHTU5	HTU5 Fugitive Emissions ⁽⁵⁾	VOC	3.50	15.32	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FCOKE1	Delayed Coking Unit Coke Handling Fugitives ⁽⁵⁾	PM	0.01	0.01	31, 33	31, 33, 40	
		PM ₁₀	0.01	0.01		40	
		PM _{2.5}	0.01	0.01		40	
FALKY4	ALKY 4 Fugitive Emissions ⁽⁵⁾	VOC	7.37	32.28	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44

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			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FASTU2	Wastewater Collection Oil Recovery ⁽⁵⁾	VOC	2.90	12.70	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FBOTF	BOTF Fugitive Emissions ⁽⁵⁾	VOC	0.28	1.22	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FBSW	Bottoms, Solids, Water Tanks Farm Fugitives ⁽⁵⁾	VOC	0.57	2.48	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FCDHDS1	CDHDS1 Fugitive Emissions ⁽⁵⁾	VOC	1.87	8.21	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.02	0.10	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FCDHDS2	CDHDS2 Fugitive Emissions ⁽⁵⁾	VOC	3.15	13.80	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.04	0.17	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FCGHT	CGHT Fugitive Emissions ⁽⁵⁾	VOC	0.01	0.01	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
FCRU4	CRU No. 4 Fugitive Emissions ⁽⁵⁾	VOC	4.70	20.60	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.06	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FDCU1	DCU 1 Fugitive Emissions ⁽⁵⁾	VOC	6.75	29.58	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.06	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FFCCU3	FCCU No. 3 Fugitive Emissions ⁽⁵⁾	VOC	6.48	28.39	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FGR-1	Flare Gas Recovery Fugitive Emissions ⁽⁵⁾	VOC	0.92	4.03	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
FGR-2	Flare Gas Recovery Fugitive Emissions ⁽⁵⁾	VOC	1.07	4.67	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
FHCUI	HCU No. 1 Fugitive Emissions ⁽⁵⁾	VOC	4.26	18.66	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FHTU1	HTU No. 1 Fugitive Emissions ⁽⁵⁾	VOC	1.62	7.11	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FHTU2	HTU No. 2 Fugitive Emissions ⁽⁵⁾	VOC	1.23	5.38	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FHTU3	HTU No. 3 Fugitive Emissions ⁽⁵⁾	VOC	2.58	11.32	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FHTU4	HTU No. 4 Fugitive Emissions ⁽⁵⁾	VOC	4.76	20.83	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FLCDU	LCDU Fugitive Emissions ⁽⁵⁾	VOC	0.59	2.60	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FLF	PAP Landfill	VOC	0.01	0.01			

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FLR43/44FE	Loading Rack Fugitive Emissions ⁽⁵⁾	VOC	0.08	0.36	13, 14, 15, 16, 20, 42, 44	13, 14, 15, 16, 20, 40, 42, 44	42, 44
FMPU3	MPU No. 3 Fugitive Emissions ⁽⁵⁾	VOC	0.69	3.02	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20, 42, 44	12, 13, 14, 15, 16, 20, 40, 42, 44	42, 44
FMPU4	MPU No. 4 Fugitive Emissions ⁽⁵⁾	VOC	0.44	1.94	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
FNSGP	North Side Gas Plant Fugitive Emissions ⁽⁵⁾	VOC	1.44	6.30	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
FPH27	Pump House No. 27 Fugitive Emissions ⁽⁵⁾	VOC	7.68	33.67	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
FPH57	Pump House No. 57 Fugitive Emissions ⁽⁵⁾	VOC	2.76	12.09	13, 14, 15, 16, 20	13, 14, 15, 16, 20	
		Benzene	0.01	0.01	13, 14, 15, 16, 20	13, 14, 15, 16, 20	
FSCTLA	Lift Station Fugitives ⁽⁵⁾	VOC	0.08	0.33			
		Benzene	0.01	0.01			
FU-Rack4	Loading Rack No. 4 Fugitive Emissions ⁽⁵⁾	VOC	0.11	0.52	13, 14, 15, 16, 20	13, 14, 15, 16, 20	
		Benzene	0.01	0.01	13, 14, 15, 16, 20	13, 14, 15, 16, 20	
FVPS2	VPS No. 2 Fugitive Emissions ⁽⁵⁾	VOC	3.60	15.75	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
		Benzene	0.01	0.03	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
FVPS4	VPS No. 4 Fugitive Emissions ⁽⁵⁾	VOC	5.83	25.56	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
		Benzene	0.01	0.05	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
FWAGS	Wet Acid Gas Scrubber Fugitive Emissions ⁽⁵⁾	VOC	0.51	2.22	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
		Benzene	0.01	0.01	12, 13, 14, 15, 16, 20	12, 13, 14, 15, 16, 20	
FWSGP	WSGP Fugitive Emissions ⁽⁵⁾	VOC	0.01	0.03	13, 14, 15, 16, 20	13, 14, 15, 16, 20	
FSPS3	FSPS3 Fugitive Emissions ⁽⁵⁾	VOC	0.01	0.01	13, 14, 15, 16, 20	13, 14, 15, 16, 20	

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Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
FTK2127	FTK2127 Fugitive Emissions ⁽⁵⁾	VOC	0.43	1.86	13, 14, 15, 16	13, 14, 15, 16	
PSAMP	Propylene Sampling in FCCU3	VOC	3.89	0.39	13, 14, 15, 16, 20	13, 14, 15, 16, 20	
EFCCU3	FCCU No. 3 Flare Stack Pilots	NO _x	0.01	0.03		8	
		CO	0.06	0.24		8	
		SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	
EHCU	HCU No. 1 Flare Stack Pilots	NO _x	0.01	0.04		8	
		CO	0.07	0.32		8	
		SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	
EHTU	HTU No. 4 Flare Stack Pilots	NO _x	0.01	0.03		8	
		CO	0.05	0.22		8	
		SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	
EVPS4	VPS No. 4 Flare Stack Pilots	NO _x	0.01	0.03		8	
		CO	0.06	0.24		8	
		SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	
ECRU4	CRU No. 4 Flare Stack Pilots	NO _x	0.01	0.03		8	
		CO	0.06	0.24		8	
		SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	
EDCU1	Delayed Coking Unit No. 1 Flare Stack Pilots	NO _x	0.01	0.03		8	
		CO	0.05	0.22		8	

Major NSR Summary Table

Permit Number: 8404/PSDTX1062M1		Issuance Date: June 15, 2016					
Emission Point No. ⁽¹⁾	Source Name ⁽²⁾	Air Contaminant Name ⁽³⁾	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy ⁽⁴⁾	Special Condition Nos.	Special Condition Nos.	Special Condition Nos.
EFCCU1&2	ALKY 4 Flare Stack Pilots	SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	
		NO _x	0.01	0.03		8	
		CO	0.06	0.24		8	
		SO ₂	0.01	0.01		8	
		VOC	0.01	0.01		8	

Footnotes:

- (1) Emission Point Identification – either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC – volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x – total oxides of nitrogen
 SO₂ – sulfur dioxide
 PM – total particulate matter, suspended in the atmosphere, include PM₁₀ and PM_{2.5}, as represented
 PM₁₀ – total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} – total particulate matter equal to or less than 2.5 microns in diameter
 CO – carbon monoxide
 H₂SO₄ – sulfuric acid
 HCl – hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Refer to MAERT ATTACHMENT – TANK GROUP for the specific EPNs, Facility Identification Numbers, and source names included in this group.
- (7) The burners in the atmospheric heaters (FINS VPS4ATM1HT and VPS4ATM2HT) are authorized by Standard Permit 89842.
- (8) The atmospheric and vacuum heaters (FINS VPS4ATM1HT, VPS4ATM2HT, VPS4VAC1HT, and VPS4VAC2HT) may exhaust through this common stack.

** The FINS included in EPN SCRU4-1 are CRU4INTHT1, CRU4INTHT2, CRU4NHTCHT, CRU4PLATHT, and CRU4SRBL.

*** The FINS included in EPN SVPS2-1 are VPS2ATM1HT, VPS2ATM2HT, VPS2ATM3HT, VPS2VAC1HT, and VPS2VAC2HT.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Motiva Enterprises LLC
Authorizing the Construction and Operation of
Port Arthur Refinery
Located at **Port Arthur, Jefferson County, Texas**
Latitude 29° 52' 0" *Longitude* -93° 57' 30"

Permit: 6056, PSDTX1062M2, and
GHGPSDTX121

Revision Date: July 15, 2016

Expiration Date: August 1, 2018

A handwritten signature in black ink, appearing to read "R. D. A. Hyle".

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled “Emission Sources--Maximum Allowable Emission Rates.” [30 TAC § 116.115(b)(2)(F)]¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to “air pollution” as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

SPECIAL CONDITIONS

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

Emission Caps and Individual Emission Limitations

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources – Maximum Allowable Emission Rates" and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions. **(12/10)**

Storage of Volatile Organic Compounds (VOC)

2. The following requirements apply specifically to Tank 1937 (EPN TK1937). **(11/15)**
 - A. Tank service is limited to storing residual oils with a throughput of 24,967,488 gallons per year.
 - B. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes.
 - C. The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank.
 - D. The holder of this permit shall maintain the temperature of the liquid at 400°F or below to maintain a vapor pressure of less than 0.017 psia at actual storage conditions. The tank temperature shall be continuously monitored and the temperature shall be recorded daily and during tank filling.

The monitor shall be calibrated or have a calibration check performed on an annual basis to meet an accuracy specification of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$. Calibration check means, at a minimum, using a second device or method to verify that the monitor is accurate as specified in the permit.

3. Storage tanks are subject to the following requirements. The control requirements specified in Paragraphs A-E of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.50 pounds per square inch, absolute (psia) at the maximum expected operating temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons.
 - A. An internal floating deck or "roof" or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.
 - B. An open-top tank containing a floating roof (external floating roof tank) which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim-mounted. A weathershield is not approvable as a secondary seal unless specifically

reviewed and determined to be vapor-tight. Routing of tank emissions to the existing vapor recovery system is an approved alternative control.

- C. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and seal gap measurements as specified in Title 40 Code of Federal Regulations § 60.113b (40 CFR § 60.113b) Testing and Procedures (as amended at 54 FR 32973, Aug. 11, 1989) to verify fitting and seal integrity. Records shall be maintained of the dates seals were inspected and seal gap measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.
- D. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998, except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.
- E. Except for logos, slogans, and similar displays (not to exceed 15 percent of the vertical tank shell area), uninsulated tank exterior surfaces exposed to the sun shall be white or aluminum. Storage tanks must be equipped with permanent submerged fill pipes.
- F. All vents/emissions from the following storage tanks shall be routed to a vapor recovery system: TK1748, TK1938, TK1939, TK2120, TK2121, TK2075, TK2076, TK2077, TK2078, and TK2148.
- G. Storage tank 1908 shall be equipped with a pressure release valve and have no working or standing emission. **(7/16)**
- H. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the previous rolling 12-month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and rolling 12-month period. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures.

Emissions for tanks shall be calculated using the TCEQ publication dated February 2001, titled "Technical Guidance Package for Chemical Sources - Storage Tanks," and U.S. Environmental Protection Agency (EPA) Tanks Program Version 4.09d based on AP-42 "Compilation of Air Pollutant Emission Factors," Section 7.1.

Operating Parameters and Conditions

- 4. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than one weight percent are not authorized by this permit unless listed with associated individual emission limitations in the table entitled "Emission Sources - Maximum Allowable Emission Rates." Any releases directly

Special Conditions

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

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to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than 1 weight percent are not consistent with good practice for minimizing emissions. **(12/10)**

5. This permit authorizes flaring of waste gases only during the maintenance, startup, and shutdown (MSS) activities which are authorized by this permit in the MSS section of these conditions. Flares shall be designed and operated in accordance with the following requirements:
 - A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under flow conditions existing during authorized MSS activities.

The heating value and velocity requirements shall be satisfied during MSS activities authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.
 - B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, an infrared monitor, or an equivalent device. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications. **(12/10)**
 - C. The flare shall be operated with no visible emissions except for periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of steam assist to the flare.
 - D. To ensure compliance with 40 § CFR 60.18 at all times during flaring associated with authorized MSS activities, the permit holder shall:
 - (1) Determine the flow rate and exit velocity to each flare by monitoring the flow at the inlet to the compressors in the flare gas recovery system.
 - (2) Determine the net heating value of the gases flared using process knowledge and operational data from the affected process units.

This data shall be kept and maintained at the plant site for five years and made available to representatives of the TCEQ upon request.
6. Except as provided elsewhere in the special conditions of this permit, all combustion sources covered under this permit shall be fired with either sweet natural gas as defined in Title 30 Texas Administrative Code Chapter 101 (30 TAC Chapter 101) or with refinery fuel gas containing no more than 0.10 grain total sulfur expressed as hydrogen sulfide (H₂S) per dry standard cubic feet (dscf) (equivalent to 160 ppmv) on a rolling three-hour basis and no more than 120 ppmv on a rolling 24-hour basis. **(8/10)**

Special Conditions

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

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7. There shall be no visible emissions from the following facilities except for those periods described in 30 TAC § 111.111(a):

- Heaters; or
- Sulfur recovery unit (SRU) Incinerators **(10/13)**

8. Except during the MSS activities authorized by this permit, the CO and NO_x emissions from boilers, reboilers and heaters shall meet the performance standards specified in this condition. **(4/15)**

- A. Unless allowed by part B of this condition, the CO concentration in the exhaust from the fired units listed in the table below by Emission Point No. (EPN) and Facility Identification No. (FIN) shall not exceed 50 ppmv, and NO_x emissions in lb/MMBtu shall not exceed that specified in the table.

EPN	FIN	Name/Description	(1)	(2)	(3)	(4)
SCRU5-1	CRU5PLATHT	#5 CRU Platformer Heater	348.4	398.0	0.035 Each	0.025 Avg. for All (5)
SCRU5-1	CRU5INTHT1	#5 CRU Platformer No. 1 Intermed. HTR	389.6	495.0		
SCRU5-2	CRU5INTHT2	#5 CRU Platformer No. 2 Intermed. HTR	251.3	354.0		
SCRU5-2	CRU5INTHT3	#5 CRU Platformer No. 3 Intermed. HTR	192.1	220.0		
SNHTU2-1	NHTU2CHT	Naphtha Hydrotreater Charge HTR	181.6	207.0		
SNHTU2-2	NHTU2STRP	Naphtha Hydrotreater Stripper Reboiler	163.6	186.0		
SNHTU2-3	NHTU2SPLT	Hydrotreater Splitter Reboiler	258.7	297.0		
SHCU2-1	HCU2H1A	HCU No. 2 1st Stage Charge A HTR	60.9	66.3		
SHCU2-2	HCU2H1B	HCU No. 2 1st Stage Charge B HTR	60.9	66.3		
SHCU2-3	HCU2H2	HCU No. 2 2nd Charge Heater	77.2	84.1		
SHCU2-6	HCU2DHHT1	HCU No. 2 DHT Charge Heater	82.2	89.6		
SHTU6-1	HTU6CHGH1	HTU No. 6 Charge Heater 1	86.4	94.1		
SHTU6-2	HTU6CHGH2	HTU No. 6 Fractionator	65.9	71.8		

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EPN	FIN	Name/Description	(1)	(2)	(3)	(4)
		Reboiler				
SHCU2-5	SCHCU2-5	HCU No. 2 Fractionator Heater	408.9	445.5		
SDCU2-1	SDCU2-1	Coker Heater No. 1	238.6	269.0		0.035 Each
SDCU2-2	SDCU2-2	Coker Heater No. 2	238.6	269.0		
SDCU2-3	SDCU2-3	Coker Heater No. 3	238.6	269.0		
SVPS5-1	VPS5H1/2	VPS No. 5, No. 1/2 Atmospheric Heater	391.7	409.0		
SVPS5-1	VPS5H3/4	VPS No. 5, No. 3/4 Atmospheric Heater	391.7	409.0		0.006 Each (6)
SVPS5-2	VPS5VAC1HT	VPS No. 5, No. 1 Vacuum Heater	206.9	216.0		
SVPS5-2	VPS5VAC2HT	VPS No. 5, No. 2 Vacuum Heater	206.9	216.0		
SPS4-6	BOILER 46	Power Boiler 46	596.0	685.4		0.015

- (1) Maximum annual average firing rate, MMBtu/hr
- (2) Maximum firing rate, MMBtu/hr
- (3) NO_x emissions, lb/MMBtu - hourly
- (4) NO_x emissions, lb/MMBtu - annual
- (5) Weighted average based on firing rate
- (6) Equipped with Selective Catalytic Reduction (SCR) - based upon 5 ppmvd NO_x (annual average)

Compliance with these limits shall be determined by stack testing or CEMS.

- B. Turndown operation of a boiler, reboiler, or heater consists of operating the combustion unit at or below the firing rate listed in the table below. The CO concentration in the exhaust shall not exceed 250 ppmvd, corrected to 3 percent oxygen, and the NO_x emissions shall not exceed 0.12 lb/MMBtu on an hourly average during turndown operation. These operating periods must be included when demonstrating compliance with the annual limits specified in part A of this condition.

EPN	FIN	Name/Description	MMBtu/hr
SCRU5-1	CRU5PLATHT	#5 CRU Platformer Heater	189.4
SCRU5-1	CRU5INTHT1	#5 CRU Platformer No. 1 Intermed. HTR	317.3
SCRU5-2	CRU5INTHT2	#5 CRU Platformer No. 2 Intermed. HTR	317.3

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EPN	FIN	Name/Description	MMBtu/hr
SCRU5-2	CRU5INTHT3	#5 CRU Platformer No. 3 Intermed. HTR	189.4
SNHTU2-1	NHTU2CHT	Naphtha Hydrotreater Charge HTR	77.5
SNHTU2-2	NHTU2STRP	Naphtha Hydrotreater Stripper Reboiler	70
SNHTU2-3	NHTU2SPLT	Hydrotreater Splitter Reboiler	111
SHCU2-1	HCU2H1A	HCU No. 2 1st Stage Charge A HTR	26.4
SHCU2-2	HCU2H1B	HCU No. 2 1st Stage Charge B HTR	26.4
SHCU2-3	HCU2H2	HCU No. 2 2nd Charge Heater	33.1
SHCU2-6	HCU2DH1H1	HCU No. 2 DHT Charge Heater	35.2
SHTU6-1	HTU6CHGH1	HTU No. 6 Charge Heater 1	20.2
SHTU6-2	HTU6CHGH2	HTU No. 6 Fractionator Reboiler	21.9
SHCU2-5	SCHCU2-5	HCU No. 2 Fractionator Heater	140.1
SDCU2-1	SDCU2-1	Coker Heater No. 1	101
SDCU2-2	SDCU2-2	Coker Heater No. 2	101
SDCU2-3	SDCU2-3	Coker Heater No. 3	101
SVPS5-1	VPS5H1/2	VPS No. 5, No. 1/2 Atmospheric Heater	158.4
SVPS5-1	VPS5H3/4	VPS No. 5, No. 3/4 Atmospheric Heater	158.4
SVPS5-2	VPS5VAC1HT	VPS No. 5, No. 1 Vacuum Heater	85.6
SVPS5-2	VPS5VAC2HT	VPS No. 5, No. 2 Vacuum Heater	85.6
SPS4-6	BOILER 46	Power Boiler 46	298

(2/13)

9. The following shall apply for units equipped with SCR:

- A. Except during the MSS activities authorized by this permit, the concentration of contaminants in the stack gases from Cogeneration Power Plant Units (EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4) shall not exceed the following concentrations, measured by volume on a dry basis (ppmvd) when corrected to 15 percent oxygen (O₂):

NO _x	5.0 ppmvd (annual basis)
CO	15.0 ppmvd (annual basis)
Ammonia	7.0 ppmvd (hourly basis), 6.0 ppmvd (annual basis)

(12/09)

- B. The concentration of NH₃ in the stack gases from the VPS5 Atmospheric Tower Heaters (EPN SVPS5-1), VPS5 Vacuum Tower Heaters (EPN SVPS5-2), and Power Boiler 46 (EPN SPS4-6) shall not exceed 9 ppmvd (on an hourly basis) when corrected to 3 percent O₂. **(12/10)**

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10. Process wastewater drains shall be equipped with water seals or equivalent; lift stations, manholes, junction boxes, and all other wastewater collection system components upstream of the API separator shall be equipped with either closed vent systems that route all organic vapor to control devices, or controls to prevent emission of the organic vapors to the atmosphere.

Water seals shall be checked by visual or physical inspection monthly for indications of low water levels or other conditions that would reduce the effectiveness of water seal controls. Water seals shall be restored as necessary. Records of these inspections and any corrective actions taken shall be maintained for a period of five years and made available to representatives of the Texas Commission on Environmental Quality upon request.

11. Piping, Valves, Connectors, Pumps, Agitators and Compressors, in contact with VOC - Intensive Directed Maintenance - 28MID Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:
 - A. The requirements of paragraphs F and G shall not apply (1) where the volatile organic compounds (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68° F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

The exempted components may be identified by one or more of the following methods:

 - (1) piping and instrumentation diagram (PID);
 - (2) a written or electronic database or electronic file;
 - (3) color coding;
 - (4) a form of weatherproof identification; or
 - (5) designation of exempted process unit boundaries.
 - B. Construction of new and reworked piping, valves, pump systems, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
 - C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
 - D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request. The difficult-to-

monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above.

- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
 - (2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.
- F. Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

The detection instrument shall meet the performance criteria of Method 21 of 40 CFR Part 60, Appendix A, except the instrument response factor criteria in

section 8.1.1 of Method 21 shall be for the representative composition of the process fluid, not each individual VOC in the stream. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with any other VOC so long as the instrument has a response factor of less than 10 for the VOC mixture to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

- G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

- I. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

- J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

Where:

- Vl= the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Vs= the number of valves for which repair has been delayed and are listed on the facility shutdown log.
- Vt= the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe to-monitor valves.
- Vp= the percentage of leaking valves for the monitoring period.

- K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

- L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

(10/13)

12. The following enhancements to the 28MID program specified in Special Condition 10 shall be implemented. The enhancements were specified in order for the permit holder to be allowed to calculate fugitive emissions using the EPA Petroleum Industry Screening Value/Leak Rate Correlation Equations as specified in Special Condition 58.C.

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- A. The EPA Method 21 monitoring shall be conducted with data loggers capable of assigning time stamps to individual monitoring events.
- B. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 500 ppmv of VOC. If the component is found to be leaking in excess of 500 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in Special Condition 10.
- C. The holder of this permit shall make a “first attempt” at repair on any valve that has a reading greater than 100 ppm of VOC, excluding control valves, pumps, and components that LDAR personnel are not authorized to repair. As part of the “first attempt at repair program,” the holder of this permit shall record, track and re-monitor leaks above the leak definitions in Special Condition 10. However, the holder of this permit shall immediately re-monitor all valves that personnel attempted to repair to ensure that the leaks have not been made worse. If the holder of this permit can demonstrate with sufficient monitoring data that “first attempt” repair at 100 ppm worsen leaks, after 2 years the holder of this permit may request that the Executive Director reconsider or amend this requirement.
- D. The holder of this permit will conduct annual training of all LDAR technicians in the application of Method 21 consistent with the requirements of this permit. Documentation of this training and the technicians trained shall be recorded.
- E. The holder of this permit shall obtain a third party audit by no later than December 31, 2015 and then at least once every two years thereafter to verify whether EPA Method 21 is being properly applied such that the resulting screening values are reliable when used to calculate emissions as required by Special Condition 58.C. The audit shall, at a minimum, focus on comparative monitoring, records review, tagging, data management, and observation of the LDAR technicians' calibration and monitoring techniques. During the audits, leak rates shall be calculated for each process unit where comparative monitoring was performed. The audit-calculated leak rates shall be compared to the permit-authorized emission rates including any subsequent Permits by Rule. A detailed audit protocol shall be submitted to the TCEQ for approval at least 6 months prior to the first scheduled audit. Copies of the report detailing the results of the audit shall be sent to the TCEQ Air Permits Division and Regional Office.
- F. Beginning no later than October 1, 2014, the holder of this permit will apply the following optical gas imaging (OGI) enhanced monitoring program for equipment leaks at those process units subject to EPA Method 21 monitoring pursuant to the special conditions of this permit. The Executive Director may extend the date for initiation of this OGI monitoring program provided the holder of this permit provides documentation demonstrating that the monitoring equipment was not available for purchase in the time frame needed to initiate the program by that date. The monitoring will be conducted using an optical gas imaging instrument as defined in 40 CFR 60.18(g)(4). OGI surveys will occur every two months at each applicable process unit at pre-established viewing stations. The number and location of the viewing stations will be designed to ensure that two thirds of the fugitive equipment

components in each process unit can be viewed. Each viewing station will have a unique identification number. Any OGI leaks observed will be tagged as close as possible to the leaking component. OGI leaks will be managed in accordance with the requirements in Special Condition 10.H of this permit. Leak repairs for equipment in gas/vapor and light liquid service will be re-monitored in accordance with Method 21. Leak repairs for equipment in heavy liquid service will be re-monitored with the OGI monitoring instrument. Each OGI survey will be manually documented and saved electronically. Documentation will include the OGI technician's name, process unit name, date, time, viewing station identification number and results (leaks, no leaks). Electronic records will also be maintained of individual leaks found, repairs, and re-monitor results. **(11/14)**

After the OGI monitoring program has been implemented for a period of at least four years, the holder of this permit may evaluate the effectiveness of the program in identifying and repairing leaks. If undertaken, this evaluation will be based on the costs of conducting the OGI monitoring program and on emission rates before and after repairs of leaks detected by the program. Emission rates will be determined as specified in Special Condition 58.C. Based on the results of that evaluation, the holder of the permit may make a request to the Executive Director that the OGI monitoring program be modified or eliminated based on a demonstration that the program as originally implemented is not economically reasonable in reducing or eliminating VOC emissions. **(10/13)**

13. In addition to the weekly physical inspection required by Item E of Special Condition 10, all accessible connectors in gas/vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Items F thru J of Special Condition 10. (28CNTQ)

- A. Connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

- B. The percent of connectors leaking used in paragraph A shall be determined using the following formula:

$$(Cl + Cs) \times 100 / Ct = Cp$$

Where:

Cl= the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

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Cs= the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct= the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.

Cp= the percentage of leaking connectors for the monitoring period.

(10/13)

14. Process drains shall be monitored quarterly at a leak definition of 500 ppmv and replaced or repaired in accordance with Items F and H of Special Condition 10. Process drains shall be designed such that repairs to leaking drains can be performed. **(10/13)**
15. Valves in heavy liquid service shall be monitored quarterly at a leak definition of 500 ppmv and replaced or repaired in accordance with Items F and H of Special Condition 10. **(10/13)**
16. All pumps in Hydrocracking Unit No. 2 (EPN FHCU2) and the Naphtha Hydrotreating Complex shall be equipped with leakless seal systems. **(12/09)**

Sulfur Recovery Units (SRUs)

17. During normal operations and planned maintenance, tail gas from the SRUs must be routed to a tail gas treating unit (TGTU). Under no circumstances shall SRU tail gas be flared or released to the atmosphere during normal operations and planned maintenance.
18. All acid gas or other waste gases from facilities associated with the SRUs must be burned in the incinerator and/or flare (emergency use). It is not permissible under any conditions to vent waste gases directly to the atmosphere.
19. The SRU Incinerator Vents (EPNs STGTU1-1, STGTU2-1, STGTU5-1, STGTU6-1, and STGTU7-1) shall be operated with not less than 1 percent oxygen (O₂) in the incinerator stack and not less than 1100°F incinerator firebox temperature. The incinerator firebox exit temperature and incinerator stack O₂ level shall be continuously monitored and recorded. This condition does not apply during stack testing on the incinerators in accordance with the Initial and Periodic Determination of Compliance sections of these conditions in order to determine incinerator performance at alternative operating conditions. **(4/15)**
20. The minimum sulfur recovery efficiency for the SRUs shall be 99.8 percent. The sulfur recovery efficiency shall be determined by calculation as follows:

$$Efficiency = \frac{(S \text{ recovered})(100)}{(S \text{ acid gas})}$$

Where:

Efficiency = sulfur recovery efficiency, percent

S recovered = S produced, Long tons per day (LTPD)

S acid gas = (S recovered plus S stack), LTPD

S stack = sulfur in the incinerator stack, LTPD

The average sulfur emission reduction efficiency (sulfur recovery efficiency) shall be demonstrated for each calendar day by a mass balance calculation using data obtained from the incinerator stack SO₂ monitor, sulfur production records, and other process data. Sulfur recovery efficiency shall be calculated for each day (not a monthly average), but the calculations may be performed monthly. Records of the sulfur recovery efficiency compliance calculations shall be maintained at the plant site for a period of five years and made available to representatives of the TCEQ upon request.

21. The SO₂ concentration in SRU incinerator vents (EPNs STGTU1-1, STGTU2-1, STGTU5-1, STGTU6-1, and STGTU7-1) shall not exceed 250 ppmv averaged over a 12-hour period. Records of the SO₂ in the incinerators' exhaust gas shall be maintained for five years and made available to representatives of the TCEQ upon request. **(05/12)**
22. Sour gas emissions from the sulfur pits, sulfur storage, and sulfur loading operations shall be collected by a vapor collection system and routed back to a SRU thermal reactor, to a TGTU, to a tail gas incinerator (TGI), or to a scrubber. During shutdown of the control device for maintenance, any emissions from the sulfur pits, sulfur storage, and sulfur truck-loading operations will be routed either to a redundant like control device or to an absorption media. Records of SRU downtime shall be maintained for a period of five years and made available to representatives of the TCEQ upon request. **(12/10)**
23. Each Amine Recovery Unit (ARU) shall use monoethanol amine, methyl diethanol amine, or diglycol amine. Changing to another H₂S contact solvent for normal operation will require a permit amendment and approval from the Executive Director of the TCEQ.
24. The SBU1 Rich Amine Charge Tanks shall be checked for hydrocarbons once per day from connections at the 15-foot and 10-foot levels and shall be hand gauged once per week. At least 13 feet of amine shall be held in the charge tanks at any given time.

If hydrocarbons are discovered at or above the 15-foot level, steps shall be taken to ensure that the amine level remains at least at the minimum 13-foot level. Hydrocarbon checks from connections at the 15-foot and 10-foot levels shall be conducted once per shift, and hand gauging shall be conducted on a daily basis until the amine level is restored to at least 13 feet. After the amine being held in the tank has returned to at least 13 feet, hydrocarbon

checking/hand gauging can return to the daily/weekly basis. Records of all hydrocarbon checks and hand gauges shall be maintained on-site for a period of five years and made available to representatives of the TCEQ upon request.

The SBU2 rich amine separators shall be equipped with a level detection device. This detector shall alarm immediately should the amine/hydrocarbon level go below the minimum set point on the level controller. In addition, the rich separators shall be manually checked for hydrocarbons at least once per day using sight glasses. Records of all alarms and manual level checks shall be maintained.

All sight glasses shall be maintained and kept in operating condition according to manufacturer specifications. **(05/12)**

25. The SBU1 rich amine surge system shall have a minimum retention time of 30 minutes based on a minimum of 50 percent capacity of the tanks and the maximum rich amine flow to the tanks. The SBU2 rich amine surge system shall have a minimum retention time of 30 minutes. Records of rich amine surge system retention time shall be maintained at the plant site for a period of five years and made available to representatives of the TCEQ upon request. **(05/12)**
26. SBU1 Sour Water Stripper (SWS) Charge Tank levels and checks for hydrocarbons shall be as follows:
 - A. During periods other than those described in paragraph B. below, the following shall apply:
 - (1) Hydrocarbon checks shall be made once per day from connections at the 15-foot and 10-foot levels, and tanks shall be hand gauged once per week.
 - (2) At least 13 feet of sour water shall be held in the charge tanks at any given time. If hydrocarbons are discovered at or above the 15-foot level, steps shall be taken to ensure that the sour water level remains at least at the minimum 13-foot level. Hydrocarbon checks from connections at the 15-foot and 10-foot levels shall be conducted once per shift, and hand gauging shall be conducted on a daily basis until the sour water level is restored to at least 13 feet. After the sour water being held in the tank has returned to at least 13 feet, hydrocarbon checking/hand gauging can return to the daily/weekly basis.
 - B. In order to increase the SBU1 sour water storage capacity preceding a planned shutdown of the SWS, for a period not to exceed 20 days the following shall apply in lieu of the requirements in paragraph A above:
 - (1) Any accumulation of hydrocarbons shall be skimmed from the water surface on all sour water storage tanks prior to drawing inventory down.
 - (2) The water surface of each sour water charge tank shall be sampled for hydrocarbon accumulation every 4 hours.
 - (3) At least 12 feet of sour water shall be held in the sour water charge tanks at any given time. If hydrocarbons are discovered at or above the 15-foot level, steps

shall be taken to ensure that the sour water level remains at least at the minimum 12-foot level. In the event that tank levels fall below 15 feet, manual tank gauging using gauge tape with "colorcut" applied shall be performed to ensure that the sour water level remains at least at the minimum 12-foot level.

- (4) Hydrocarbon checks from connections at the 15-foot and 10-foot levels shall be conducted every 4 hours. If any hydrocarbon is detected at the 10 foot level, charge to the SWS from that tank shall immediately be stopped until steps are taken to ensure that the sour water level remains at least at the minimum 12-foot level.

Records of all hydrocarbon checks, hand gauges, beginning and ending dates of drawdown periods, and beginning dates of planned SWS shutdowns shall be maintained on-site for a period of five years and made available to representatives of the TCEQ upon request.

The SBU2 sour water stripper feed tank shall be equipped with an interface level detection device which will provide sour water/hydrocarbon interface level detection. This detector shall alarm immediately should the sour water/hydrocarbon interface go below 13 feet. In addition, the sour water stripper feed tank shall be manually checked for hydrocarbons at least once per week to verify accuracy of the online interface level detection. 13 feet of sour water shall be maintained in the feed tank at any given time. If hydrocarbons are discovered at or below the above indicated level, steps shall be taken to restore the sour water level back to the 13-foot level. Records of all alarms and manual interface meter checks shall be maintained. **(05/12)**

27. Except during periods described in Special Condition No. 25.B, the SBU1 sour water stripper surge system shall have a minimum retention time of three days based on a minimum of 50 percent capacity of the tanks and the maximum sour water flow to the tanks.

The SBU2 sour water stripper surge system shall have a minimum retention time of three days based on the actual sour water charge flow from the tank to the sour water stripper. Records of SBU1 and SBU2 sour water stripper surge system retention time shall be maintained at the plant site for a period of five years and made available to representatives of the TCEQ upon request. There shall be at least 3 days of holdup (excess) capacity maintained for sour water storage. This capacity shall only be used for sour water storage when necessary to avoid flaring of acid gases due to reduced SRU complex capacity. It shall be restored within one week of the return of the sulfur recovery complex to normal operations. **(05/12)**

28. The vapors from the sour water charge tanks (surge tanks) and flash tanks shall be vented to the plant vapor recovery system.
29. There shall be a minimum of 12 H₂S monitors placed throughout the SRU2, SRU3, ARU1, ARU2, and SWS1 areas. There shall be a minimum of 8 H₂S monitors placed throughout the SRU4, ARU4, and TGTU2 areas. An appropriate number of H₂S monitors shall be placed throughout the SRU5, SRU6, SRU7, ARU5, ARU6, TGTU5, TGTU6, TGTU7, and

SWS2 areas. These monitors shall be arranged in such a way that provides coverage for wind directions varying through 360 degrees. The monitors shall be set to alarm at a concentration of 10 ppm and shall alarm in the control room and in the local plant area. A diagram of the operating units and the location of the monitors shall be provided at the plant site and made available to representatives upon request. Records of alarms shall be maintained for a period of five years and made available to representatives of the TCEQ upon request. **(05/12)**

30. The total sulfur recovered from the SBU1 Sulfur Recovery Units (SRU2, SRU3, SRU4) shall not exceed 786 long tons per day (LTPD) on a 12-month rolling average basis. Each SRU train shall not exceed a sulfur recovery rate of 384 LTPD when oxygen enrichment is used or a rate of 303 LTPD when no oxygen enrichment is used. The total sulfur recovered from the SBU2 SRUs authorized by this permit shall not exceed 1200 LTPD on a 12-month rolling average basis. Each individual SRU shall not exceed a sulfur recovery rate of 570 LTPD. Total sulfur recovered from both SBU1 Sulfur Recovery Units (SRU2, SRU3, SRU4) and SBU2 Sulfur Recovery Units (SRU5, SRU6, SRU7) shall not exceed 1968 LTPD. **(05/12)**

31. This condition applies to the following cooling towers:

<u>FIN</u>	<u>EPN</u>	<u>Location</u>
VPS5 FE	FKVPS 5 FE	Vacuum Pipe Still 5
DCU2 FE	FKDCU2 FE	Delayed Coking Unit 2
CRU5 FE	FKCRU5 FE	Catalytic Reforming Unit 5
FKARU3	ARU3 FE	Amine Recovery Unit 3

- A. The following requirements apply to the Amine Recovery Unit cooling tower.

- (1) VOC associated with cooling tower water shall be monitored monthly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method. The results of the monitoring, cooling water flow rate and maintenance activities on the cooling water system shall be recorded. The monitoring results and cooling water hourly mass flow rate shall be used to determine cooling tower hourly VOC emissions. The rolling 12-month cooling water emission rate shall be recorded on a monthly basis and be determined by summing the VOC emissions between VOC monitoring periods over the rolling 12-month period. The emissions between VOC monitoring periods shall be obtained by multiplying the total cooling water mass flow between cooling water monitoring periods by the higher of the two VOC monitored results. If the rolling 12-month VOC emissions from any one

cooling tower exceed its individual annual emission limit, a report shall be submitted to the appropriate TCEQ Regional Office within 30 days containing details as to the reasons for the exceedance.

- (2) The heat exchange and cooling tower systems shall be maintained so as to minimize VOC emissions into the cooling waters. Faulty equipment shall be repaired at the earliest opportunity; however, leaking equipment shall be repaired no later than the next planned shutdown after a VOC concentration of 0.08 ppmw is discovered.
 - (3) Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.8 ppmw. The VOC concentrations above 0.8 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded. All records shall be maintained at the plant site for a period of five years and made available to representatives of the TCEQ upon request.
 - B. The VOC associated with the other cooling tower water shall be monitored monthly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method. The results of the monitoring, cooling water flow rate, and maintenance activities on the cooling water system shall be recorded. The monitoring results and cooling water hourly mass flow rate shall be used to determine cooling tower hourly VOC emissions. The rolling 12 month cooling water emission rate shall be recorded on a monthly basis and be determined by summing the VOC emissions between VOC monitoring periods over the rolling 12 month period. The emissions between VOC monitoring periods shall be obtained by multiplying the total cooling water mass flow between cooling water monitoring periods by the higher of the 2 VOC monitored results. **(10/13)**
32. The inlet temperature to the combustion catalyst for the Cogeneration Power Plant Units (EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4) shall be monitored at least once every 15 minutes and the 4 hour rolling average recorded each hour. The 4-hour rolling average of the inlet temperature shall be maintained within the range suggested by the catalyst manufacturer. The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

Quality assured (or valid) data must be generated when the turbine is operating. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the turbine operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgement and the methods used recorded. **(10/13)**

Piping, Valves, Pumps, And Compressors In H₂S Service

33. Piping, valves, pumps, and compressors in H₂S service are subject to the following requirements:
- A. Audio, olfactory, and visual checks for H₂S leaks within the operating area shall be made once each shift while the facility is operating.
 - B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take the following actions:
 - (1) Stop the leak by taking the equipment out of service or bypass the equipment so that it is no longer in service.
 - (2) Isolate the leak.
 - (3) Commence repair or replace the leaking component.
 - (4) If the leak cannot be repaired within six hours, the holder of this permit shall use a leak collection or containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

Records shall be maintained at the plant site of the time leaks were detected and all repairs and replacements made due to leaks. These records shall be maintained for a period of five years and made available to representatives of the TCEQ upon request.

Piping, Valves, Pumps, And Compressors In SO₂ or NH₃ Service

34. Piping, valves, pumps, and compressors in SO₂ or NH₃ service are subject to the following requirements:
- A. Audio, olfactory, and visual checks for SO₂ and NH₃ leaks within the SRUs, ARUs, and SWSs shall be made once each shift while the facility is operating. **(05/12)**
 - B. Immediately, but no later than one hour upon detection of a leak, the holder of this permit shall take one of the following actions:
 - (1) Isolate the leak.
 - (2) Commence repair or replacement of the leaking component.
 - (3) Use a leak collection or containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.
 - C. The date and time of each inspection shall be recorded in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be maintained at the plant site for a period of five years and made available to the TCEQ Executive Director or his designated representative upon request.

Delayed Coking Unit

35. All conveyors shall be covered and water sprays shall be installed and operated as necessary at all coke product transfer points in order to control coke dust emissions to the minimum level possible under existing conditions.
36. Coke stockpiles shall be sprinkled with water and/or chemicals as necessary to control coke dust emissions to the minimum level possible under existing conditions.
37. All truck traffic hauling coke shall be on paved roads from the DCU limits to the plant property line. These roads shall be cleaned upon visible detection of coke particulate emissions.
38. The undercarriage of all coke trucks leaving the plant site shall be washed with water, and the coke load shall be covered with a canvas or similar type of covering firmly secured to reduce particulate emissions.
39. As determined by a trained observer, no visible emissions from coke handling facilities shall leave the plant property.
40. Coke product may be hauled off-site by rail, truck, or conveyor. Rail or conveyor shall be the primary mode of transportation. A water truck in operating condition shall be kept at the plant when coke product is being hauled off-site by truck. The water truck shall be used to control fugitive dust emissions. The TCEQ Regional Office shall be notified when coke loadout operations using trucks commence.
41. The moisture of the coke in the primary coke pad and the alternate coke pad shall be maintained in a visibly wet condition at a level of 8.0 percent or greater. The holder of this permit shall take samples of the coke on the conveyer system transferring coke from the coke pad to the storage silo on each day that transfers are being made and analyze the samples for moisture content and record the results. The holder of this permit shall take a composite sample collected from a minimum of four locations around the perimeter of the alternate coke storage pad on each day that the alternate coke storage pad is in use. Compliance with the moisture content requirement shall be determined based on the weekly average of the moisture content measured for the various days during the calendar week. The alternate coke storage pad shall service both Delayed Coking Units (DCU1 and DCU2). **(2/13)**
42. In the event that the capability to export coke from the site is interrupted, coke may be stockpiled at the alternate coke storage pad on a temporary basis. Coke may be stockpiled for no more than 90 days per instance of export disruption, at the end of which period all stockpiled coke shall be removed from the site. During any such periods, the following shall apply:
 - A. A watering truck or other watering device (such as a sprinkler system, etc.) shall be used on the coke in the alternate coke storage pad as necessary to minimize

particulate emissions. Final design of a watering system other than a watering truck shall be approved by the appropriate TCEQ Regional Office prior to installation.

- B. The permit holder shall take samples of the stockpiled coke in the alternate coke storage pad for water content analysis within one hour prior to the scheduled application of water. Sampling frequency shall be once every other day until the coke stockpile is removed. Sampling locations shall be rotated sufficiently to ensure representative coverage of the stockpile.
- C. The TCEQ Regional Office shall be notified in writing within 15 days after coke has begun being stockpiled at the alternate coke storage pad. Records of the water content analysis samples taken of the stockpiled coke in the alternate coke storage pad shall be maintained for a period of five years and made available to representatives of the TCEQ upon request.

Initial Determination of Compliance

- 43. Sampling ports and platform(s) shall conform to the specifications set forth in the enclosure entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.
- 44. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the following sources associated with the CEP
 - Heaters and boilers with firing rates greater than or equal to 100 MMBtu/hr and (EPNs SCR5-1, SCR5-2, SNHTU2-1, SNHTU2-2, SNHTU2-3, SHCU2-5, SDCU2-1, SDCU2-2, SDCU2-3, SVPS5-1, SVPS5-2, and SPS4-6),
 - Heaters and boilers with firing rates greater than 40 MMBtu/hr and less than 100 MMBtu/hr (EPNs SHCU2-1, SHCU2-2, SHCU2-3, SHCU2-6, SHTU6-1, and SHTU6-2), and
 - Cogeneration Power Plant Units (EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4).

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

- A. The appropriate TCEQ Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

- (1) Date for pretest meeting;
- (2) Date sampling will occur;
- (3) Name of firm conducting sampling;
- (4) Type of sampling equipment to be used; and

- (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format and procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in B of this condition shall be submitted to the TCEQ Office of Air, Air Permits Division in Austin. Test waivers and alternate or equivalent procedure proposals for NSPS testing that must have EPA approval shall be submitted to the TCEQ Regional Director.

- B. Air contaminants to be tested for include (but are not limited to) the following for the various units:
- (1) Heaters and boilers greater than or equal to 100 MMBtu/hr – VOC and SO₂.
 - (2) Heaters and boilers greater than 40 MMBtu/hr and less than 100 MMBtu/hr – VOC, SO₂, NO_x, and CO.
 - (3) Cogeneration power plant units – SO₂, NO_x, CO, VOC, PM (both front and back-half of the sampling train), H₂SO₄, and NH₃.
- C. Each emission point shall be sampled for all contaminants except for VOC within 60 days of achieving maximum operation, not to exceed 180 days after initial start of operation. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. Additional time to comply with the applicable requirements of 40 CFR Parts 60 and 61 requires EPA approval, and requests shall be submitted to the TCEQ Regional Director.
- Each emission point shall be sampled for VOC before August 31, 2014. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office.
- D. Each emission point subject to stack emission testing shall be tested when the facility (or facilities) directly associated with the emission point is operating at maximum emissions potential. Primary operating parameters that enable determination of maximum emissions potential shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the facility is unable to operate at maximum emissions potential during testing, then future operations may be limited based on the rates established during testing.
- E. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed to the appropriate TCEQ Regional Office. **(10/13)**

Periodic Determination of Compliance

45. Upon request from the TCEQ Executive Director the holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the following sources:

(05/12)

- SBU1 - SRU Tail Gas Incinerators (EPNs STGTU1-1 AND STGTU2-1).
CEP - Heaters and boilers with firing rates equal to or greater than 40 MMBtu/hr and less than 100 MMBtu/hr (EPNs SHCU2-1, SHCU2-2, SHCU2-3, SCHU2-6, SHTU6-1, and SHTU6-2), and **(12/10)**
- Cogeneration Power Plant Units (EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4).
(12/09)

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

- A. The appropriate TCEQ Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format and procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or the EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director or the TCEQ Compliance Support Division in Austin shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in B of this condition shall be submitted to the TCEQ Office of Permitting and Registration, Air Permits Division in Austin. Test waivers and alternate or equivalent procedure proposals for NSPS testing that must have the EPA approval shall be submitted to the TCEQ Regional Director.

- B. Air contaminants to be tested for include (but are not limited to) the following for the various units: **(12/10)**

- (1) Heaters and boilers – NO_x, SO₂, and CO.

- (2) Cogeneration power plant units – NO_x, CO, SO₂, VOC, PM (both front and back-half of the sampling train), H₂SO₄, and NH₃.
- (3) SRU TGIs - NO_x, CO, SO₂, VOC.
- C. Each emission point subject to stack emission testing shall be tested within 180 days of receiving a request from the Executive Director. Testing shall be conducted when the facility (or facilities) directly associated with the emission point is operating at maximum emissions potential (e.g., maximum production, throughput, firing rate, etc.) Primary operating parameters that enable determination of maximum emissions potential shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the plant is unable to operate at maximum emissions potential during testing, then future operations may be limited based on the rates established during testing.
- D. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office

- 46. Upon request from the TCEQ Executive Director or when the actual SBU1 production exceeds its listed rate of 786 LTPD by more than 15 percent in any 24-hour period, the holder of this permit shall perform stack sampling and other testing as required, in accordance with Special Condition No. 44, to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from EPNs STGTU1-1 (TGTU No. 1 Incinerator), STGTU2-1 (TGTU No. 2 Incinerator), STGTU1-2 (Hot Oil Heater), and STGTU2-2 (Hot Oil Heater). **(06/12)**
- 47. The CEP Reformer Regeneration Vent (EPN SCRU5-3) is subject to the following requirements: **(12/10)**
 - A. Each vent shall be routed through a caustic scrubber prior to discharge to the atmosphere, or be designed with a moving bed gas-solid adsorption system (MBAS). The scrubbers or MBAS shall be designed to control hydrogen chloride (HCl) emissions to an outlet concentration of 10 ppmv or an overall control efficiency of 99 percent, whichever is less stringent. **(4/15)**
 - B. If vent emissions are controlled with a scrubber, the scrubbing solution shall be maintained at or above the higher of a pH of 7.0, or the average minimum alkalinity established during the performance test. The alkalinity shall be analyzed once daily with an appropriate alkalinity meter. **(4/15)**
 - C. If vent emissions are controlled with a MBAS, the temperature of the inlet gas to and from the regenerator shall be continually monitored, and maintained at or below the higher of the daily average temperature (280° F), or the maximum temperature established during the performance test. **(4/15)**

- D. The inlet and outlet HCl emissions shall be tested daily with an approved portable analyzer.
- E. The weekly average chloride levels on the sorbent shall not exceed 1.35 weight percent for the inlet and 1.8 weight percent for the outlet when sampled consistently with 40 CFR 63.1567 (Subpart UUU). **(4/15)**
- F. Records of the analytical and testing results and the actual testing methods used shall be maintained at the plant site for a period of five years and made available to the TCEQ Executive Director or his designated representative upon request.

Continuous Determination of Compliance

- 48. The holder of this permit shall install, calibrate, operate, and maintain CEMSs to measure and record the following:
 - A. The NO_x, CO, and O₂ from the following new CEP heaters and boilers with firing rates greater than 100 MMBtu/hr (EPNs SCRU5-1, SCRU5-2, SNHTU2-1, SNHTU2-2, SNHTU2-3, SDCU2-1, SDCU2-2, SDCU2-3, and SHCU2-5); **(12/10)**
 - B. The SO₂ and O₂ from the SRU/SCOT TGIs (EPNs STGTU1-1, STGTU2-1, STGTU5-1, STGTU6-1, and STGTU7-1); and **(05/12)**
 - C. The NO_x, CO, diluent gases (O₂ or carbon dioxide [CO₂]), and NH₃ from Cogeneration Power Plant Units (EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4), Power Boiler 46 (SPS4-6), VPS5 Atmospheric Tower Heaters (EPN SVPS5-1), and VPS5 Vacuum Tower Heaters (EPN SVPS5-2). As an approved alternative, the NH₃ slip may be measured using a sorbent or stain tube device specific for NH₃ measurement in the 5 to 10 ppm range. The frequency of sorbent or stain tube testing shall be daily for the first 60 days of operation, after which the frequency may be reduced to weekly testing if operating procedures have been developed to prevent excess amounts of NH₃ from being introduced in the SCR unit and when operation of the SCR unit has been proven successful with regard to controlling NH₃ slip. **(12/10)**
 - D. H₂S in representative locations in the refinery fuel gas system in accordance with the fuel sulfur monitoring requirements of 40 CFR § 60.105.
- 49. Each CEMS associated with new CEP sources shall be operational within 60 days of the emission source achieving maximum operation, not to exceed 180 days after initial operation.

The CEMS shall meet the following requirements: **(12/10)**

- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.

- B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; Section 2 applies to all other sources:
- (1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.
 - (2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

Each monitor shall be quality-assured at least quarterly using Cylinder Gas Audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1.2, with the following exception: a relative accuracy test audit (RATA) is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

All CGA exceedances of +15 percent accuracy indicate that the CEMS is out of control.
- C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of pounds/hour at least once every week in accordance with Attachment 2 of these conditions, entitled "Calculation of Emission Rates from CEMS Data."
- D. All monitoring data and quality assurance data shall be maintained by the source. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
- E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.
- F. Quality-assured (or valid) data must be generated when the facility generating emissions is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the facility generating emissions operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgement and the methods used recorded. Options to increase system reliability to an acceptable

value, including a redundant CEMS, may be required by the TCEQ Regional Manager.

Emission Reductions

50. Authorization for start of operation of facilities added by the CEP is contingent upon the following:
- A. Shutdown of three Power Boilers (Nos. 29, 32, and 33 - EPNs SPS1-2, SPS3-2, and SPS3-3, respectively) and one Turbine (No. GT26 - EPN SPS1-2) shall occur prior to introduction of feed to a new major CEP unit (DCU2, HCU2, NPC, or VPS5).
 - B. Shutdown of two natural gas-fired compressor engines in the existing Hydrocracking Unit (FHCU1) shall occur prior to introduction of feed to a new major CEP unit (DCU2, HCU2, NPC, or VPS5).
 - C. The permit holder shall reduce potential NO_x emissions by 127.58 tpy from three natural-gas fired Compressor Engines (Nos. 400A, 400B, and 400C) in the West Side Gas Plant. This may be achieved by reduced operation of the engines or installation low NO_x technology to the engines, once feed is introduced to a new major CEP unit (DCU2, HCU2, NPC, or VPS5). The emission reduction shall be made enforceable via amendment or alteration of this permit as appropriate.
 - D. Staged Activated Sludge Treating Units (SASTUs) 1921/1922 shall be shut down and replaced with covered SASTUs 2125/2126 (authorized by PBR) prior to introduction of feed to a new major CEP unit (DCU2, HCU2, NPC, or VPS5).

The holder of this permit shall maintain records of these emission reduction projects at the plant site. **(10/13)**

Maintenance, Startup, And Shutdown (MSS)

51. This permit authorizes emissions from the following planned MSS activities: **(12/10)**
- A. Cleaning and/or repair of tanks listed in Attachment 3;
 - B. Pressure vessel degassing for cleaning, inspection, and/or repair;
 - C. Maintenance and/or startup of the flare gas recovery system;
 - D. Maintenance and/or startup of the vapor recovery system;
 - E. Startup of the Cogeneration Power Plant Units (EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4);
 - F. Startup of the Heaters and Boilers;
 - G. Vacuum Trucks and Frac Tanks listed in Attachment 8;
 - H. Inherently low emitting activities listed in Attachment 5;
 - I. Routine maintenance activities listed in Attachment 6;

- J. Temporary facilities used to support planned MSS activities as listed in Attachment 9; and
- K. MSS emissions from Misc. Chemical use.

Attachment 5 identifies the inherently low emitting MSS activities that may be performed at the refinery. Emissions from activities identified in Attachment 5 shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment 5 must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment 6 may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment 6 shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of each planned MSS activity not identified in Attachments 5 or 6 and the emissions associated with it shall be recorded and include at least the following information:

- L. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;
- M. the type of planned MSS activity and the reason for the planned activity;
- N. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;
- O. the date and time of the MSS activity and its duration;
- P. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis.

- 52. Emissions from these MSS activities are subject to the emission rate limitations in the attached table entitled "Emission Sources – Maximum Allowable Emission Rates." Any maintenance, start-up, and shutdown activities not in the above list are not authorized by this permit. **(12/10)**
- 53. Each MSS activity performed, and the associated emissions, shall be recorded and the rolling 12-month emissions shall be updated on a monthly basis. These records shall include at least the following information:

- A. The physical location at which emissions from the MSS activity occurred, including the emission point number, common name, and any other identifier for the point at which the emissions were released into the atmosphere;
 - B. The type of planned MSS activity and the reason for the planned activity;
 - C. The common name and the facility identification number of the facilities at which the MSS activity and emissions occurred;
 - D. The date and time of the MSS activity and its duration;
 - E. The estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the amendment application dated January 2006.
54. If mixed phase materials must be removed from process equipment, cleared material shall be routed to a knockout drum or equivalent for initial phase separation. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence maintenance. Liquids must be stored in a closed vessel until transferred to permanent storage.
55. Any gas or vapor removed from process or storage vessels must be routed to the fuel gas system, flare gas recovery system, vapor recovery system, or portable combustion device if the cumulative contaminant partial pressure is greater than 0.50 psi at process conditions or ambient temperature. Control must be maintained until the VOC concentration is less than either 34,000 ppmv as methane, or 10% of the LEL of the controlled material. A vacuum shall be maintained during degassing to a control device with at least 98 percent VOC destruction efficiency, and shall be documented by the use of a vacuum gauge or verification of flow into all open vents. The facilities shall be vented using good engineering practice to ensure air contaminants are flushed out of the system through the control device to the extent allowed by process equipment or storage vessel design. The locations and identifiers of the vents and controlled exhaust stream shall be recorded.
- (4/15)**
56. After two system volumes of purge gas have passed through the control device, the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a TCEQ-approved alternative detector. The instrument/FID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR Part 60, Appendix A).

Sampling shall be performed as follows:

- A. Immediately prior to performing sampling, the instrument/FID shall be calibrated with zero and span calibration gas mixtures. Zero gas shall be certified to contain between 0 and 10 ppmv total hydrocarbons. Span calibration gas shall be methane at a concentration within between 34,000 and 50,000 ppmv, and certified by the manufacturer to be ± 2 percent accurate. Calibration error for the zero and span

calibration gas checks must be less than 5 percent of the span calibration gas value before sampling may be conducted.

- B. The sampling point shall be upstream of the inlet to a control device. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.
 - C. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording 1-minute averages. The highest one-minute average measured VOC concentration shall not exceed 34,000 ppmv as methane prior to uncontrolled venting.
 - D. Records of all VOC sampling, instrument calibration values, and calibration gas records shall be maintained. **(10/13)**
57. Emissions from refilling operations to refloat the roofs of floating roof tanks with landed roofs shall be routed to the flare gas recovery system, vapor recovery system, or a portable combustion device. Portable combustion devices shall have at least 98 percent VOC destruction efficiency. **(10/13)**
58. Records of all floating roof refilling operations shall be maintained on-site for a period of five years and made available to designated representatives of the TCEQ upon request. The record shall include the tank identification number, name of the filling material, start time and date, and end time and date.

Emission Compliance Recordkeeping

59. Records of all compliance testing, CEM results, process parameters (including short-term production rates, firing rates, etc.), and any other data used to demonstrate compliance with emission rate limitations shall be maintained on-site for a period of five years and made available to designated representatives of TCEQ upon request. **(12/10)**

Emission calculations to demonstrate compliance with the annual emission rate limitations, which are on a 12-month rolling average basis, shall be performed at least once every calendar quarter. Demonstration of compliance shall be based on the emission calculation methods described below.

A. Tanks:

- (1) Routine emissions shall be calculated based on AP-42, Chapter 7 (Fifth Edition), using the physical property data of the material stored and the actual tank configuration. Short-term emission rates shall be based on the maximum expected filling rate for fixed-roof tanks and the higher of the filling rate or withdrawal rate for internal and external floating roof tanks. Rolling 12-month emission rates shall be based on actual rolling 12-month throughput rates.
- (2) Emissions from landing and refloating roofs of floating roof tanks for purposes of planned maintenance shall be calculated using API Technical Report 2567,

“Evaporative Loss from Storage Tank Floating Roof Landings,” dated April 2005. These emissions shall be increased as provided for by Equation No. 5 of the API report, taking into account the number of elapsed days after the tank roof is landed and until all sources of VOC vapor generation (including pools, puddles, leaking pontoons, etc.) are removed prior to refloating the roof.

- B. Loading emissions shall be calculated as described in the permit condition entitled VOC Loading Operations, using the physical property data of the material loaded, rolling 12-month throughput for annual emissions, and loading rates for short-term emissions.
- C. Fugitives - Emissions from equipment components not monitored using EPA Reference Method 21 pursuant to the special conditions of this permit shall be calculated based on component counts and corresponding emission factors consistent with TCEQ guidance as of November 15, 2006, including reduction credits consistent with the implementation of the 28MID or AVO maintenance programs, as applicable. Emissions from equipment components monitored using EPA Reference Method 21 shall be calculated using EPA petroleum industry leak rate/screening value correlation equations consistent with the TCEQ 2011 Emissions Inventory Guidelines Technical Supplement 3: Fugitive Emissions from Piping Components (RG-360A/11). The resulting calculated total organic compound (TOC) emission rates shall be converted to VOC emission rates based on the ratio of weight percent VOC to weight percent TOC in the stream. Monitoring to determine screening values shall be conducted with an analyzer with a flame ionization detector (TVA-1000 or equivalent). The use of response factors as described in Technical Supplement 3 is not required if the response factor of the mixture of VOCs monitored is not greater than three. If a correction is necessary, the screening values shall be adjusted by the response factor before using the screening values to calculate emissions as described in Section 2.4.2 of EPA’s Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017, November 1995).
- D. Boilers/Heaters – Emissions shall be calculated based on CEM information, if required for the source. If CEM information is not available, emissions shall be calculated based on the most recent stack sampling results, if available. If no stack sampling data is available, emissions shall be calculated using the appropriate emission factor for the specific source and the measured daily heating value and average flow rate of the fuel gas. If the facility is fired with fuel oil, the emissions from fuel oil combustion shall be calculated using the appropriate emission factor for the specific source, the quantity of fuel oil fired, and the fuel oil sulfur content. Hours of operation firing fuel oil shall be recorded.
- E. SRU – Emissions shall be calculated based on CEM information, if required for the source. If CEM information is not available, emissions shall be calculated based on the most recent stack sampling results for those compounds, if available. If no stack sampling results are available, use the appropriate emission factor for the specific source.
- F. Cooling Towers – Emissions shall be calculated based on actual sampling results and average quarterly recirculation rates.

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- G. Coke Handling Operations – Emissions shall be calculated based on AP-42, Chapter 13.2.4.2 (Fifth Edition), using monthly throughput rates.
- H. Cogeneration Power Plant Units - Emissions shall be calculated based on CEM information, if required for the source. If CEM information is not available, emissions shall be calculated based on the most recent stack sampling results, if available. If no stack sampling data is available, emissions shall be calculated using the appropriate emission factor for the specific source and the measured daily heating value and average flow rate of the fuel gas. **(10/13)**

Compliance Assurance Monitoring

- 60. Compliance Assurance Monitoring requirements will be met as outlined in Attachment 4 to these conditions.

Federal Applicability

- 61. These facilities shall comply with all applicable requirements of EPA regulations on Standards of Performance for New Stationary Sources in 40 CFR Part 60, Subparts A, Db, J, Kb, QQQ, and KKKK.
- 62. These facilities shall comply with all applicable requirements of the EPA regulations on NESHAPS in 40 CFR Part 61, Subparts A and FF.
- 63. These facilities shall comply with all applicable requirements of the EPA regulations on NESHAPS for Source Categories in 40 CFR Part 63, Subparts A, CC, UUU, and YYYY.

Additional MSS Conditions For Vacuum Trucks, Frac Tanks And Miscellaneous Chemicals

- 64. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities:
 - A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled. Logos, slogans, and similar displays (not to exceed 15 percent of the vertical tank shell area) are allowed.
 - B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom.
 - C. These requirements do not apply to vessels storing less than 100 gallons of liquid that are closed such that the vessel does not vent to atmosphere.
 - D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC partial pressure at the estimated monthly average

material temperature in psia. Filling and standing emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."

- E. If the tank/vessel is used to store liquid with VOC partial pressure less than 0.10 psi at 95°F, records may be limited to the days the tank is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.
65. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
- A. Vacuum pumps and blowers shall not be operated on trucks containing or vacuuming liquids with VOC partial pressure greater than 0.50 psi at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.
 - B. Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - (1) Prior to initial use, identify any liquid in the truck. Record the liquid level and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system. After each liquid transfer, identify the liquid transferred and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system.
 - (2) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a "duckbill" or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - (3) If the vacuum truck exhaust is controlled, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer, measured using an instrument meeting the requirements of Special Condition 76.
 - (4) The volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.

- E. If the VOC partial pressure of all the liquids vacuumed into the truck is less than 0.10 psi, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application.
66. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.
- A. The VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR Part 60, Appendix A) with the following exceptions:
 - (1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate response factor shall be recorded.
 - (2) Sampling shall be performed as directed by this permit in lieu of Section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
 - (3) If a TVA-1000 calibrated with methane is used to determine the VOC concentration, a measured concentration of 34,000 ppmv may be considered equivalent to 10,000 ppmv as VOC.
 - B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements:
 - (1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in (3), the concentration measured is at least 20 percent of the maximum range of the tube.
 - (2) The tube is used in accordance with the manufacturer's guidelines.
 - (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:
measured contaminant concentration (ppmv) < release concentration.
Where the release concentration is:
10,000*mole fraction of the total air contaminants present that can be detected by the tube.
The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.
Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

- C. Continuous monitor on the vacuum truck provided it meets all of the design and performance specifications listed in Special Condition No. 57.
67. Attachment 5 identifies the inherently low emitting MSS activities that may be performed at the refinery. Emissions from activities identified in Attachment 5 shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment 5 must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment 6 may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment 6 shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The chemicals, cleaners, and lubricants identified in the Attachment 7 are authorized to be used in support of MSS at the facilities located at the site. Emissions of these chemicals, cleaners, and lubricants shall be based on warehouse inventory tracking or equivalent for that month. Any product release for use shall be assumed to be used that month.

Additional Conditions for MSS Implementation

68. The permit holder may maintain abbreviated records of emissions from Attachments 5 and 6 activities as allowed in Special Condition 66 rather than documenting all the information required by Special Condition 52 parts A through E.
69. Planned MSS activities must be conducted in a manner consistent with good practice for minimizing emissions, including the use of air pollution control equipment, practices, and processes. All reasonable and practical efforts to comply with Special Conditions 53 through 55 and 63 through 66 must be used when conducting the planned MSS activity, until the commission determines that the efforts are unreasonable or impractical, or that the activity is an unplanned MSS activity.
70. The emissions from routine startup and shutdown (SS) activities of the Cogeneration Power Plant Units are reflected in the MAERT. These emissions will be minimized by the following:
- A. Facility and air pollution control equipment will be operated in a manner consistent with good practices for minimizing emissions.
 - B. The frequency and duration of operation in SS mode will be minimized and the applicable emissions monitoring systems will be kept in operation.
 - C. Individual cold startup events for EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4 shall not exceed seven hours. A cold startup is defined as a startup after a unit has received no fuel for a period of 24 hours or more.

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- D. Individual warm startup events for EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4 shall not exceed five hours. A warm startup is defined as a startup which is not a cold startup.
 - E. Individual shutdown events for EPNs SPS4-1, SPS4-2, SPS4-3, and SPS4-4 shall not exceed two hours.
 - F. The SS activities are authorized provided that the NO_x, CO and VOC emission rates in lb/hr do not exceed those specified in the MAERT and comply with the tons per year specified in the MAERT at normal operating conditions.
 - G. Only one of the four cogeneration units in Power Station No. 4 (EPN's SPS4-1 through SPS4-4) may be started up at any one time. The cogeneration units are considered to be in routine operation as soon as NO_x and CO concentrations are able to meet the concentration limits in Special Condition 8.A. **(08/10)**
71. The following sources and/or activities are authorized under a Standard Exemption or a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(11/14)**

Authorization	Source or Activity
Standard Exemption No. 6	WSGP Compressor Engines A, B, and C

72. All fugitive components authorized under emission point number (EPN) CEP-FUG shall be monitored in accordance with the enhanced fugitive LDAR program found in Special Condition No. 10 "Piping, Valves, Connectors, Pumps, Agitators and Compressors, in contact with VOC – Intensive Directed Maintenance – 28MID," Special Condition No. 11, "Enhancements to 28 MID program," Special Condition No. 12, "28CNTQ (Connectors Inspected Quarterly)," Special Condition No. 13, "Process Drains," Special Condition No. 14, "Valves in Heavy Liquid Service," and Special Condition No. 15, "Pumps in Hydrocracking Unit No. 2 (EPN FHCU2) and the Naphtha Hydrotreating Complex." **(07/15)**

Dated: July 15, 2016

ATTACHMENT 1
Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

28MID LDAR PROGRAM
Additional Units Post-Feed to CEP
**Naphtha Hydrotreating Unit (FNHTU2)
**Delayed Coking Unit No. 2 (FDCU2)
**Hydrocracking Unit No. 2 (FHCU2)
**Hydrocracking Unit No. 2 Outside Battery Limits (FHCU2-OSBL)
**Hydrotreating Unit No. 6 (FHTU6)
Amine Recovery Unit 1 (FARU1)
Amine Recovery Unit 2 (FARU2)
Amine Recovery Unit 3 (FARU3)
Amine Recovery Unit 4 (FARU4)
**Amine Recovery Unit 5 (FARU5)
**Amine Recovery Unit 6 (FARU6)
Sulfur Recovery Unit 2 (FSRU2)
Sulfur Recovery Unit 3 (FSRU3)
Sulfur Recovery Unit 4 (FSRU4)
**Sulfur Recovery Unit 5 (FSRU5)
**Sulfur Recovery Unit 6 (FSRU6)
**Sulfur Recovery Unit 7 (FSRU7)
**Vacuum Pipe Still 5 (FVPS5)
**Flare Gas Recovery 3 (FGR-3)
Tail Gas Treating Unit No. 1 (FTGTU1)
Tail Gas Treating Unit No. 2 (FTGTU2)
**Tail Gas Treating Unit No. 5 (FTGTU5)
**Tail Gas Treating Unit No. 6 (FTGTU6)
**Tail Gas Treating Unit No. 7 (FTGTU7)
**Power Station (FPS4)
**API Separator Piping Fugitives (FAPISEP)
Sour Water System 1 (FSWS1)
**Sour Water System 2 (FSWS2)
**Sour Water System 3 (FSWS3)

** New CEP Units. Naphtha Hydrotreating Unit (FNHTU2) includes a Naphtha Hydrotreating Unit, a Penex Isomerization Unit, a Catalytic Reforming Unit (CRU5), and supporting processing units.

Dated: July 31, 2015

ATTACHMENT 2

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

Calculation of Emission Rates from CEMS Data

(1) Heaters and Boilers:

Emission Rate, lb/hr = $\text{ppmd} * (\text{Firing Rate, MMBtu/hr}) * \text{Cd} * \text{Fd} * [20.9 / (20.9 - \text{O}_2\% \text{d})]$

where: ppmd = pollutant concentration (dry) in ppm from CEMS

Firing Rate (MMBtu/hr) = firing rate determined from the measured fuel gas firing rate (scf/hr) times the fuel gas heating value (MMBtu/scf) from the most recent fuel gas sample

$\text{Cd} (\text{NO}_x) = 1.194 \times 10^{-7} \text{ lb}/(\text{scfd} \cdot \text{ppmd})$

$\text{Cd} (\text{CO}) = 0.7268 \times 10^{-7} \text{ lb}/(\text{scfd} \cdot \text{ppmd})$

$\text{Cd} (\text{NH}_3) = 0.4413 \times 10^{-7} \text{ lb}/(\text{scfd} \cdot \text{ppmd})$

$\text{Fd} (\text{scfd/MMBtu})$ = F factor as determined by 40 CFR 60, Appendix A, Method 19 or by reference to a site-specific table of Fd versus fuel gas heating value approved by the Executive Director

$\text{O}_2\% \text{d}$ = percent oxygen (dry) from the O_2 CEMS

(2) SRU/SCOT TGIs:

EPNs STGTU1-1 and STGTU2-1

$\text{SO}_2 (\text{lb/hr}) = 62.22 \text{ lb/hr} * (\text{SO}_2 \text{ ppmvd}/250 \text{ ppm}) * (\text{Firing Rate}/75 \text{ MMBtu/hr})$

EPNs STGTU5-1, STGTU6-1, and STGTU7-1

$\text{SO}_2 (\text{lb/hr}) = 71.11 \text{ lb/hr} * (\text{SO}_2 \text{ ppmvd}/250 \text{ ppm}) * (\text{Firing Rate}/66.1 \text{ MMBtu/hr})$

where: $\text{SO}_2 \text{ ppmd}$ = SO_2 concentration (dry, 0% O_2) in ppm from CEMS

Firing Rate = SRU tail gas incinerator firing rate in MMBtu/hr determined from the measured natural gas firing rate (scf/hr) times the natural gas heating value (MMBtu/scf) from the most recent natural gas sample.

(3) Cogeneration Power Plant Units:

Emission Rate, lb/hr =

$\text{ppmd} * \{ (\text{Turbine Fuel Rate, MMBtu/hr}) * \text{Cd} * \text{Fd} \cdot \text{t} * [20.9 / (20.9 - \text{O}_2\% \text{d})] + (\text{Duct Burner Firing, MMBtu/hr}) * \text{Cd} * \text{Fd} \cdot \text{d} * [20.9 / (20.9 - \text{O}_2\% \text{d})] \}$

where: ppmd = pollutant concentration (dry) in ppm from CEMS

Turbine Fuel Rate (MMBtu/hr) = turbine natural gas fuel rate in MMBtu/hr determined from the measured natural gas consumption (scf/hr) times the natural gas heating value (MMBtu/scf) from the most recent natural gas sample.

Duct Burner Firing (MMBtu/hr) = firing rate determined from the measured fuel gas firing rate (scf/hr) times the daily average fuel gas heating value (MMBtu/scf) from the most recent fuel gas sample.

$$Cd(NO_x) = 1.194 \times 10^{-7} \text{ lb/(scfd-ppmd)}$$

$$Cd(CO) = 0.7268 \times 10^{-7} \text{ lb/(scfd-ppmd)}$$

$$Cd(NH_3) = 0.4413 \times 10^{-7} \text{ lb/(scfd-ppmd)}$$

Fd (scfd/MMBtu) = F factor for turbine fuel (Fd-t) and duct burner fuel (Fd-d) as determined by 40 CFR 60, Appendix A, Method 19 or by reference to a site-specific table of Fd versus fuel heating value approved by the TCEQ Executive Director.

O₂%d = percent oxygen (dry) from the O₂ CEMS

Upon approval of the TCEQ Executive Director, the permit holder may use alternative methods to calculate emissions in pounds per hour from the CEMS results for the sources listed above.

Dated: July 31, 2015

ATTACHMENT 3

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

[reserved]

ATTACHMENT 4 – COMPLIANCE ASSURANCE MONITORING

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

EPN	Unit Name	CAM Basis*	CAM Option
SPS4-1	Power Station No. 4 Cogen Unit 1	Case-by-Case	NO _x CEMS
SPS4-2	Power Station No. 4 Cogen Unit 2	Case-by-Case	NO _x CEMS
SPS4-3	Power Station No. 4 Cogen Unit 3	Case-by-Case	NO _x CEMS
SPS4-4	Power Station No. 4 Cogen Unit 4	Case-by-Case	NO _x CEMS
STGTU1-1	TGTU1 Incinerator	MACT UUU	Satisfies CAM requirements
STGTU2-1	TGTU2 Incinerator	MACT UUU	Satisfies CAM requirements
STGTU5-1	SRU5/TGTU5 Incinerator	MACT UUU	Satisfies CAM requirements
STGTU6-1	SRU6/TGTU6 Incinerator	MACT UUU	Satisfies CAM requirements
STGTU7-1	SRU7/TGTU7 Incinerator	MACT UUU	Satisfies CAM requirements
SCRU5-2	Regen Vent Scrubber Emissions	MACT UUU	Satisfies CAM requirements
EDCU2	CRU5, NHTU2, DCU2, and FGP (includes PS4)	CAM Guidance	Pilot Flame Observation with Camera
EHCU2	HCU2 and CFH	CAM Guidance	Pilot Flame Observation with Camera
EVPS5	VPS5	CAM Guidance	Pilot Flame Observation with Camera
ESBU2	SBU2	CAM Guidance	Pilot Flame Observation with Camera

* “CAM Guidance” refers to TCEQ Compliance Assurance Monitoring Guidance Document - February 2003 - Draft.

Dated: July 31, 2015

ATTACHMENT 5

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

INHERENTLY LOW EMITTING ACTIVITIES

Activity	Emissions				
	VOC	NO _x	CO	PM	H ₂ S/SO ₂
Catalyst activation/deactivation	X				X
Management of sludge from pits, ponds, sumps, and water conveyances	X				
Aerosol Cans	X				
Calibration of analytical equipment	X	x	x		x
Carbon can replacement	X				
Catalyst charging/handling				x	
Instrumentation/analyzer maintenance	X				
Meter proving	X				
Replacement of analyzer filters and screens	X				
Maintenance on water treatment systems (cooling, boiler, potable)	X				
Soap and other aqueous based cleaners	X				
Cleaning sight glasses	X				

Dated: July 31, 2015

ATTACHMENT 6

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

ROUTINE MAINTENANCE ACTIVITIES

Pump repair/replacement

Fugitive component (valve, pipe, flange) repair/replacement

Compressor repair/replacement

Heat exchanger repair/replacement

Vessel repair/replacement

Dated: July 31, 2015

ATTACHMENT 7

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

CHEMICALS AND CLEANERS

The following materials are authorized for use in support of maintenance activities on the facilities located at the site.

Lubricants

Spray lubricants

Rust inhibitors

Degreaser cleaner

Contact cleaner

Starting fluid

Hydraulic jack oil

Thread cutting oil

Anti-seize compound

Coupling grease

Valve lubricant/sealant

Bearing grease

Tapping/cutting fluid

Motor grease

Dated: July 31, 2015

ATTACHMENT 8

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

MSS ACTIVITY SUMMARY

Facilities	Description	Emissions Activity	FIN
Vacuum Trucks and Frac Tanks	Vacuum Trucks and Frac Tanks	vent to control device	VACTRUCK, FRAC
Vacuum Trucks and Frac Tanks	Vacuum Trucks and Frac Tanks	vent to atmosphere	VACTRUCK, FRAC

Dated: July 31, 2015

ATTACHMENT 9

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

FACILITY LIST

This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: frac tanks, containers, vacuum trucks, facilities used for painting or abrasive blasting, portable control devices and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in this Attachment, and (c) does not operate as a replacement for an existing authorized facility.

Dated: July 31, 2015

ATTACHMENT 10 – EMISSION GROUPS

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

EMISSION POINT NUMBERS AND SOURCE NAMES

This table lists the emission point numbers, facility identification numbers, and source names for all emission sources covered by this permit that are included in an emissions group.

Emission Group	FIN	EPN	EPN Description
Cogen Unit Group	GTG41	SPS4-1	Power Station No. 4 Cogen Unit 1
(CGNGRP)	GTG42	SPS4-2	Power Station No. 4 Cogen Unit 2
	GTG43	SPS4-3	Power Station No. 4 Cogen Unit 3
	GTG44	SPS4-4	Power Station No. 4 Cogen Unit 4
	BOILER 46	SPS4-6	Power Boiler 46
SRU Incinerators Group	STGTU1-1	STGTU1-1	TGTU1 Incinerator
(SRUGRP)	STGTU2-1	STGTU2-1	TGTU2 Incinerator
	STGTU5-1	STGTU5-1	SRU5/TGTU5 Incinerator
	STGTU6-1	STGTU6-1	SRU6/TGTU6 Incinerator
	STGTU7-1	STGTU7-1	SRU7/TGTU7 Incinerator
Tank Group	004TK001	004TK001	MEA Tank
(TNKGRP)	TK 1908	TK 1908	Storage TK 1908
	TK 1937	TK 1937	Storage TK 1937
	TK 1938	TK 1938	Storage TK 1938
	TK 1939	TK 1939	Storage TK 1939
	TK 2067	TK 2067	Storage TK 2067
	TK 2068	TK 2068	Storage TK 2068
	TK 2069	TK 2069	Storage TK 2069
	TK 2072	TK 2072	Storage TK 2072
	TK 2073	TK 2073	Storage TK 2073
	TK 2074	TK 2074	Storage TK 2074
	TK 2075	TK 2075	Storage TK 2075
	TK 2076	TK 2076	Storage TK 2076
	TK 2077	TK 2077	Storage TK 2077
	TK 2078	TK 2078	Storage TK 2078
	TK 2085	TK 2085	Storage TK 2085
	TK 2093	TK 2093	Storage TK 2093
	TK 2094	TK 2094	Storage TK 2094
	TK 2096	TK 2096	Storage TK 2096
	TK 2097	TK 2097	Storage TK 2097

Special Conditions

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

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Emission Group	FIN	EPN	EPN Description
	TK 2110	TK 2110	DCU quench water tank
	TK 2111	TK 2111	Refinery waste tank
	TK 2112	TK 2112	Storage TK 2112
	TK 2113	TK 2113	Storage TK 2113
	TK 2115	TK 2115	Storage TK 2115
	TK 2121	TK 2121	Storage TK 2121
Maintenance Group	FLARES	MSS	MSS Emissions from Flares
(PRECEPGRP and POSCEPGRP)	TANKS	MSS	Tank Maintenance
	VESSELS	MSS	Vessel Degassing
	VACTRUCK	MSS	Vacuum Trucks
	FRAC	MSS	Frac Tanks
	CHEM	MSS	Miscellaneous Chemicals
	HEATERS	MSS	MSS Emissions from Heaters
	GTG41	SPS4-1	Power Station 4 Cogen Unit 1
	GTG42	SPS4-2	Power Station 4 Cogen Unit 2
	GTG43	SPS4-3	Power Station 4 Cogen Unit 3
	GTG44	SPS4-4	Power Station 4 Cogen Unit 4

Dated: July 31, 2015

ATTACHMENT 11 – MSS EMISSION CAPS

Permit Numbers 6056, PSDTX1062M2, and GHGPSDTX121

CONTAMINANTS, EMISSION POINT NUMBERS, AND SOURCE NAMES

This table lists the maintenance, startup, and shutdown activities from all emission sources covered by this permit that are included in a MSS emissions cap.

The column marked PM identifies which emissions sources are included in the PM, PM₁₀, and PM_{2.5} emission caps.

Activity	MSS Emission Cap Contaminants Emitted					
	NO _x	VOC	SO ₂	CO	PM	H ₂ S
FLARES*	X	X	X	X		X
TANKS	X	X		X		
VESSELS		X				
VACTRUCK		X				
FRAC		X				
CHEM		X				
HEATERS	X	X	X	X	X	
GTG1	X	X	X	X	X	
GTG2	X	X	X	X	X	
GTG3	X	X	X	X	X	
GTG4	X	X	X	X	X	

* FLARES include EPN's: EDCU2, EHCU2, EVPS5, and ESBU2

Dated: July 31, 2015

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6056 and PSDTX1062M2

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
FCOKE2	COKE 2FE	DCU Coke Handling (5)	PM	0.01	0.01
			PM ₁₀	0.01	0.01
			PM _{2.5}	0.01	0.01
FCOKEX	COKE X FE	Coke Stockpile Surge Pad (5)	PM	0.33	1.45
			PM ₁₀	0.17	0.72
			PM _{2.5}	0.17	0.72
FKCRU5 FE	CRU5 FE	#5 CRU Cooling Tower	VOC	2.31	4.34
			Benzene	0.01	0.01
			Chlorine	0.28	1.25
FKDCU2 FE	DCU2 FE	DCU 2 Cooling Tower	VOC	1.71	3.21
			Benzene	0.01	0.01
			Chlorine	0.21	0.92
FKPS 4 FE	PS 4 FE	Power Station Cooling Tower	Chlorine	0.04	0.17
FKVPS 5 FE	VPS 5 FE	VPS Cooling Tower	VOC	1.64	3.07
			Benzene	0.01	0.01
			Chlorine	0.20	0.88
FKARU3	ARU 3 FE	ARU No. 3 Cooling Tower (5)	VOC	0.01	0.04
			Benzene	0.01	0.01
			Chlorine	0.01	0.06
EDCU2	EDCU2	DCU No. 2 Flare Stack	NO _x	0.03	0.11
			VOC	0.01	0.01
			SO ₂	0.01	0.01
			CO	0.18	0.81

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
EHCU2	HCU NO2FS	HCU No. 2 Flare Stack	NO _x	0.02	0.09
			VOC	0.01	0.01
			SO ₂	0.01	0.01
			CO	0.15	0.64
EVPS5	VPS NO5 FS	VPS No. 5 Flare Stack	NO _x	0.02	0.07
			VOC	0.01	0.01
			SO ₂	0.01	0.01
			CO	0.11	0.48
ESBU2	SBU2	SBU2 Flare Stack	NO _x	0.02	0.07
			VOC	0.01	0.01
			SO ₂	0.01	0.01
			CO	0.11	0.48
FARU1	ARU 1 FE	ARU No. 1 Fugitive Emissions	VOC	0.14	0.63
			Benzene	0.01	0.01
			Hydrogen Sulfide	0.22	0.96
FARU2	ARU2 FE	ARU No. 2 Fugitive Emissions	VOC	0.08	0.33
			Benzene	0.01	0.01
			Hydrogen Sulfide	0.11	0.48
FARU3	ARU 3 FE	ARU No.3 Fugitive Emissions	VOC	0.08	0.36
			Benzene	0.01	0.01
			Hydrogen Sulfide	0.08	0.37
FSWS1	ARU 3 FE	ARU No.3 Fugitive Emissions	VOC	0.01	0.01
			Hydrogen Sulfide	0.16	0.72
			Ammonia	0.01	0.01
FARU4	ARU 4 FE	ARU No.4 Fugitive Emissions	VOC	0.14	0.16
			Benzene	0.01	0.01
			Hydrogen Sulfide	0.04	0.17

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
FSRU2	SRU 2 FE	SRU No.2 Fugitive Emissions	SO ₂	0.01	0.04
			Hydrogen Sulfide	0.01	0.05
FSRU3	SRU 3 FE	SRU No.3 Fugitive Emissions	SO ₂	0.01	0.04
			Hydrogen Sulfide	0.01	0.05
FSRU4	SRU 4 FE	SRU No.4 Fugitive Emissions	SO ₂	0.06	0.24
			Hydrogen Sulfide	0.06	0.26
CEP-FUG	Various	Fugitives Group	VOC	33.61	147.66
			SO ₂	0.02	0.28
			CO	0.02	0.09
			Benzene	0.05	0.23
			Hydrogen Sulfide	0.74	3.26
			Ammonia	0.01	0.01
FTGTU1	TGTU 1 FE	Tail Gas Treating Unit No.1 Incinerator Fugitives	SO ₂	0.01	0.03
			CO	0.01	0.06
			Hydrogen Sulfide	0.01	0.06
FTGTU2	TGTU 2 FE	Tail Gas Treating Unit No.2 Incinerator Fugitives	SO ₂	0.01	0.03
			CO	0.02	0.07
			Hydrogen Sulfide	0.01	0.07
SCRU5-1	CRU5INTHT1	#5 CRU Platformer No.1 Intermediate Heater	NO _x	17.33	42.66
			VOC	2.67	2.30
			SO ₂	18.44	37.82
			CO	16.94	58.41
			PM	3.69	12.71
			PM ₁₀	3.69	12.71
			PM _{2.5}	3.69	12.71

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SCRU5-2	CRU5INTHT2	#5 CRU Platformer No.2 Intermediate Heater	NOx	12.39	27.51
			VOC	1.91	1.48
			SO ₂	13.19	24.39
			CO	12.12	37.67
			PM	2.64	8.20
			PM ₁₀	2.64	8.20
			PM _{2.5}	2.64	8.20
SCRU5-2	CRU5INTHT3	#5 CRU Platformer No.3 Intermediate Heater	NOx	7.70	21.04
			VOC	1.19	1.13
			SO ₂	8.20	18.65
			CO	7.53	28.81
			PM	1.64	6.27
			PM ₁₀	1.64	6.27
			PM _{2.5}	1.64	6.27
SNHTU2-1	NHTU2CHT	Naphtha Hydrotreater CHG Heater	NOx	7.25	19.88
			VOC	1.12	2.14
			SO ₂	7.71	17.63
			CO	7.09	27.22
			PM	1.54	5.93
			PM ₁₀	1.54	5.93
			PM _{2.5}	1.54	5.93
SCRU5-1	CRU5PLATHT	#5 CRU Platformer Heater	NOx	13.93	38.15
			VOC	2.15	2.06
			SO ₂	14.83	33.82
			CO	13.62	52.23
			PM	2.97	11.37
			PM ₁₀	2.97	11.37
			PM _{2.5}	2.97	11.37

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SHCU2-1	HCU2H1A	HCU No.2 1 st Stage Charge Set A Heater	NOx	2.32	6.66
			VOC	0.36	0.72
			SO ₂	2.47	5.91
			CO	2.27	9.12
			PM	0.49	1.99
			PM ₁₀	0.49	1.99
			PM _{2.5}	0.49	1.99
SHCU2-2	HCU2H1B	HCU No.2 1 st Stage Charge Set B Heater	NOx	2.32	6.66
			VOC	0.36	0.72
			SO ₂	2.47	5.91
			CO	2.27	9.12
			PM	0.49	1.99
			PM ₁₀	0.49	1.99
			PM _{2.5}	0.49	1.99
SHCU2-3	HCU2H2	HCU No.2 2 nd Charge Heater	NOx	2.94	8.46
			VOC	0.45	0.91
			SO ₂	3.13	7.50
			CO	2.88	11.58
			PM	0.63	2.52
			PM ₁₀	0.63	2.52
			PM _{2.5}	0.63	2.52
SHTU6-1	HTU6CHGH1	HTU No.6 Charge Heater	NOx	3.29	9.46
			VOC	0.51	1.02
			SO ₂	3.51	8.39
			CO	3.22	12.96
			PM	0.70	2.82
			PM ₁₀	0.70	2.82
			PM _{2.5}	0.70	2.82

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SHTU6-2	HTU6CHGH2	HTU No.6 Fractionator Reboiler	NOx	2.51	7.22
			VOC	0.39	0.78
			SO ₂	2.67	6.40
			CO	2.46	9.88
			PM	0.53	2.15
			PM ₁₀	0.53	2.15
			PM _{2.5}	0.53	2.15
SHCU2-6	HCU2DHTH1	HCU No.2 DHT Charge Heater	NOx	3.13	9.00
			VOC	0.48	0.97
			SO ₂	3.34	7.98
			CO	3.07	12.33
			PM	0.67	2.68
			PM ₁₀	0.67	2.68
			PM _{2.5}	0.67	2.68
SHCU2-5	SCHCU2-5	HCU No.2 Fractionator Heater	NOx	15.59	62.69
			VOC	2.40	4.83
			SO ₂	16.59	39.70
			CO	15.25	61.31
			PM	3.32	13.35
			PM ₁₀	3.32	13.35
			PM _{2.5}	3.32	13.35
SDCU2-1	SDCU2-1	Coker Heater No.1	NOx	9.42	36.58
			VOC	1.45	1.41
			SO ₂	10.02	23.16
			CO	9.21	35.77
			PM	2.00	7.79
			PM ₁₀	2.00	7.79
			PM _{2.5}	2.00	7.79

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SDCU2-2	SDCU2-2	Coker Heater No.2	NOx	9.42	36.58
			VOC	1.45	1.41
			SO ₂	10.02	23.16
			CO	9.21	35.77
			PM	2.00	7.79
			PM ₁₀	2.00	7.79
			PM _{2.5}	2.00	7.79
SDCU2-3	SDCU2-3	Coker Heater No.3	NOx	9.42	36.58
			VOC	1.45	1.41
			SO ₂	10.02	23.16
			CO	9.21	35.77
			PM	2.00	7.79
			PM ₁₀	2.00	7.79
			PM _{2.5}	2.00	7.79
SVPS5-1	VPS5H1/2	VPS No.5, No.1/2 Atmospheric Heater	NOx	14.32	9.65
			VOC	2.21	4.63
			SO ₂	15.24	38.02
			CO	14.00	58.72
			PM	3.05	12.78
			PM ₁₀	3.05	12.78
			PM _{2.5}	3.05	12.78
			Ammonia	1.53	6.42

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SVPS5-1	VPS5H3/4	VPS No.5, No.3/4 Atmospheric Heater	NOx	14.32	9.65
			VOC	2.21	4.63
			SO ₂	15.24	38.02
			CO	14.00	58.72
			PM	3.05	12.78
			PM ₁₀	3.05	12.78
			PM _{2.5}	3.05	12.78
			Ammonia	1.53	6.42
SVPS5-2	VPS5VAC1HT	VPS No.5, No.1 Vacuum Heater	NOx	7.56	5.10
			VOC	1.16	2.44
			SO ₂	8.05	20.09
			CO	7.39	31.02
			PM	1.61	6.75
			PM ₁₀	1.61	6.75
			PM _{2.5}	1.61	6.75
			Ammonia	0.81	3.39
SVPS5-2	VPS5VAC2HT	VPS No.5, No.2 Vacuum Heater	NOx	7.56	5.10
			VOC	1.16	2.44
			SO ₂	8.05	20.09
			CO	7.39	31.02
			PM	1.61	6.75
			PM ₁₀	1.61	6.75
			PM _{2.5}	1.61	6.75
			Ammonia	0.81	3.39

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SNHTU2-2	NHTU2STRP	Naphtha Hydrotreater Stripper Reboiler	NOx	6.51	17.92
			VOC	1.00	1.93
			SO ₂	6.93	15.89
			CO	6.37	24.53
			PM	1.39	5.34
			PM ₁₀	1.39	5.34
			PM _{2.5}	1.39	5.34
SNHTU2-3	NHTU2SPLT	Naphtha Hydrotreater Stripper Reboiler	NOx	10.40	28.32
			VOC	1.60	3.05
			SO ₂	11.06	25.11
			CO	10.17	38.78
			PM	2.21	8.44
			PM ₁₀	2.21	8.44
			PM _{2.5}	2.21	8.44
STGTU1-2	STGTU1-2	Hot Oil Heater	NOx	0.53	1.21
			VOC	0.03	0.07
			SO ₂	0.20	0.27
			CO	0.43	1.00
			PM	0.04	0.09
			PM ₁₀	0.04	0.09
			PM _{2.5}	0.04	0.09
STGTU2-2	STGTU2-2	Hot Oil Heater	NOx	3.12	13.67
			VOC	0.17	0.74
			SO ₂	1.16	3.03
			CO	2.57	11.25
			PM	0.23	1.02
			PM ₁₀	0.23	1.02
			PM _{2.5}	0.23	1.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SCRU5-3	CRU5-CCR	Regen Vent Scrubber Emissions	NOx	2.28	10.00
			SO ₂	1.59	6.96
			PM	0.13	0.59
			PM ₁₀	0.13	0.59
			PM _{2.5}	0.13	0.59
			HCl	0.07	0.30
			Chlorine	0.01	0.06
SSSCRUB	SLD/TK1928	Sulfur Loading	Hydrogen Sulfide	0.16	0.71
POSCEPMN	POSCEPMN	Maintenance Group After CEP (6)	NOx	899.31	18.37
			VOC	3149.82	75.97
			SO ₂	359.64	3.86
			CO	2755.98	52.40
			PM	66.98	1.51
			PM ₁₀	66.98	1.51
			PM _{2.5}	66.98	1.51
			Benzene	4.15	0.30
			H ₂ SO ₄	8.00	0.32
			Hydrogen Sulfide	29.09	0.35
			Ammonia	13.81	0.43
CGNGRP	CGNGRP	Cogen Unit Group(6)	NOx	74.21	272.81
			VOC	10.64	39.55
			SO ₂	78.68	161.45
			CO	117.82	516.03
			PM	101.87	391.33
			PM ₁₀	101.87	391.33
			PM _{2.5}	101.87	391.33
			H ₂ SO ₄	32.00	58.69
			Ammonia	29.83	113.39

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
TNKGRP	TNKGRP	Tank Group (6)	VOC	69.00	40.20
			Benzene	0.03	0.07
SRUGRP	SRUGRP	SRU Incinerators Group (6)	NOx	29.15	109.56
			VOC	1.86	7.08
			SO ₂	324.90	1351.64
			CO	56.86	236.54
			PM	2.58	9.78
			PM ₁₀	2.58	9.78
			PM _{2.5}	2.58	9.78
SPS-LOV1	GTG41-LOV	Power Station No.4 Lube Oil Vent 1 (5)	PM	0.05	0.22
			PM ₁₀	0.05	0.22
			PM _{2.5}	0.05	0.22
SPS4-1	GTG41	Power Station No.4 Cogen Unit 1	NOx	15.22	62.87
			VOC	2.12	8.75
			SO ₂	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			PM _{2.5}	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS-LOV2	GTG42-LOV	Power Station No.4 Lube Oil Vent 2 (5)	PM	0.05	0.22
			PM ₁₀	0.05	0.22
			PM _{2.5}	0.05	0.22

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SPS4-2	GTG42	Power Station No.4 Cogen Unit 2	NOx	15.22	62.87
			VOC	2.12	8.75
			SO ₂	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			PM _{2.5}	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS-LOV3	GTG43-LOV	Power Station No.4 Lube Oil Vent 3 (5)	PM	0.05	0.22
			PM ₁₀	0.05	0.22
			PM _{2.5}	0.05	0.22
SPS4-3	GTG43	Power Station No.4 Cogen Unit 3	NOx	15.22	62.87
			VOC	2.12	8.75
			SO ₂	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			PM _{2.5}	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS-LOV4	GTG44-LOV	Power Station No.4 Lube Oil Vent 4 (5)	PM	0.05	0.22
			PM ₁₀	0.05	0.22
			PM _{2.5}	0.05	0.22

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SPS4-4	GTG44	Power Station No.4 Cogen Unit 4	NOx	15.22	62.87
			VOC	2.12	8.75
			SO ₂	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			PM _{2.5}	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS4-6	Boiler 46	Power Boiler 46	NOx	20.86	39.16
			VOC	3.21	7.04
			SO ₂	22.20	57.86
			CO	20.40	89.36
			PM	4.44	19.45
			PM ₁₀	4.44	19.45
			PM _{2.5}	4.44	19.45
			Ammonia	2.23	9.77
TK2073	TK2073	Storage TK2073	VOC	8.41	0.11
			Benzene	0.01	0.01
TK2074	TK2074	Storage TK2074	VOC	8.41	0.11
			Benzene	0.01	0.01
TK2093	TK2093	Storage TK2093	VOC	11.89	9.03
TK2094	TK2094	Storage TK2094	VOC	6.55	6.32
TK2085	TK2085	Storage TK2085	VOC	8.68	0.06
			Benzene	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
TK2097	TK2097	Storage TK2097	VOC	1.64	6.26
			Benzene	0.01	0.03
TK2096	TK2096	Storage TK2096	VOC	1.64	6.26
			Benzene	0.01	0.03
TK2069	TK2069	Storage TK2069	VOC	4.60	11.39
			Benzene	0.01	0.02
TK2067	TK2067	Storage TK 2067	VOC	4.60	11.39
			Benzene	0.01	0.02
TK2068	TK2068	Storage TK 2068	VOC	4.60	11.39
			Benzene	0.01	0.02
TK2110	TK2110	DCU Quench Water Tank	VOC	0.01	0.10
			Benzene	<0.01	<0.01
TK2111	TK2111	Refinery Waste Tank	VOC	0.70	0.19
TK2113	TK2113	Storage TK 2113	VOC	0.07	0.05
TK2115	TK2115	Storage TK 2115	VOC	0.07	0.05
TK2145	TK2145	Storage TK2145	VOC	1.14	4.17
			Benzene	0.01	0.01
TK1930	TK1930	Amine Surge Tank 1930	VOC	0.07	0.01
TK1937	TK1937	Resid Tank	VOC	14.13	0.97
004TK001	004TK001	Storage Tank 004TK	VOC	0.03	0.01
STGTU5-1	STGTU5-1	SRU5/TGTU5 Incinerator	NOx	5.22	22.85
			VOC	0.35	1.54
			SO ₂	71.11	311.47
			CO	12.44	54.51
			PM	0.49	2.13
			PM ₁₀	0.49	2.13
			PM _{2.5}	0.49	2.13

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
STGTU6-1	STGTU6-1	SRU6/TGTU6 Incinerator	NOx	5.22	22.85
			VOC	0.35	1.54
			SO ₂	71.11	311.47
			CO	12.44	54.51
			PM	0.49	2.13
			PM ₁₀	0.49	2.13
			PM _{2.5}	0.49	2.13
STGTU7-1	STGTU7-1	SRU7/TGTU7 Incinerator	NOx	5.22	22.85
			VOC	0.35	1.54
			SO ₂	71.11	311.47
			CO	12.44	54.51
			PM	0.49	2.13
			PM ₁₀	0.49	2.13
			PM _{2.5}	0.49	2.13
FPS3	PS No 3 FE	Power Station No.3 Fugitive Emissions	VOC	2.20	9.50
STGTU1-1	TGTUINCINR	SRU1/TGTU1 Incinerator	NOx	6.00	18.22
			VOC	0.40	1.23
			SO ₂	62.22	236.83
			CO	10.89	41.45
			PM	0.56	1.70
			PM ₁₀	0.56	1.70
			PM _{2.5}	0.56	1.70

STGTU2-1	STGTU2-1	SRU2/TGTU1 Incinerator	NOx	7.50	22.78
			VOC	0.40	1.23
			SO2	62.22	236.83
			CO	10.89	41.45
			PM	0.56	1.70
			PM ₁₀	0.56	1.70
			PM _{2.5}	0.56	1.70

- (1) Emission point identification – either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations
- (6) Refer to Attachment 10 – Emission Groups for the specific EPNs, Facility Identification Numbers and source names included in each group.

Date: July 15, 2016



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
Motiva Enterprises LLC
Authorizing the Construction and Operation of
Port Arthur Refinery
Located at Port Arthur, Jefferson County, Texas
Latitude 29° 52' 59" Longitude -93° 57' 59"

Permit: GHGPSDTX121

Issuance Date : July 30, 2015

Expiration Date: July 30, 2025

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Number GHGPSDTX121

1. This permit authorizes emissions only from those emission points listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," (MAERT) and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating conditions specified in this permit.

Fugitive Leak Detection and Repair (LDAR) Program

2. All fugitive components authorized under emission point number (EPN) CEP-FUG shall be monitored in accordance with the enhanced fugitive LDAR program found in Permit No. 6056, Special Condition No. 10 "Piping, Valves, Connectors, Pumps, Agitators and Compressors, in contact with VOC - Intensive Directed Maintenance - 28MID," Special Condition No. 11, "Enhancements to 28MID program," Special Condition No. 12, "28CNTQ (Connectors Inspected Quarterly)," Special Condition No. 13, "Process Drains," Special Condition No. 14, "Valves in Heavy Liquid Service," and Special Condition No. 15, "Pumps in Hydrocracking Unit No. 2 (EPN FHCU2) and the Naphtha Hydrotreating Complex."

Date: July 30, 2015

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX121

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
CEP-FUG	Fugitives Group	CH ₄ (5)	0.00
		CO ₂ e	145.00
SHCU2-1	HCU No.2 1st Stage Charge Set A Heater	CO ₂ (5)	10,960.00
		CH ₄ (5)	0.21
		N ₂ O (5)	0.02
		CO ₂ e	10,971.00
SHCU2-2	HCU No.2 1 st Stage Charge Set B Heater	CO ₂ (5)	12,481.00
		CH ₄ (5)	0.24
		N ₂ O (5)	0.02
		CO ₂ e	12,493.00
SHCU2-3	HCU No.2 2nd Charge Heater	CO ₂ (5)	13,996.00
		CH ₄ (5)	0.26
		N ₂ O (5)	0.03
		CO ₂ e	14,010.00
SHCU2-5	HCU No.2 Fractionator Heater	CO ₂ (5)	82,923.00
		CH ₄ (5)	1.56
		N ₂ O (5)	0.16
		CO ₂ e	83,008.00
SHCU2-6	HCU No.2 DHT Charge Heater	CO ₂ (5)	12,011.00
		CH ₄ (5)	0.23

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
		N ₂ O (5)	0.02
		CO ₂ e	12,024.00
SCRU5-1	#5 CRU Platformer No.1 Intermediate Heater	CO ₂ (5)	27,067.00
		CH ₄ (5)	0.51
		N ₂ O (5)	0.05
		CO ₂ e	27,095.00
SCRU5-2	#5 CRU Platformer No.2 Intermediate Heater	CO ₂ (5)	17,925.00
		CH ₄ (5)	0.34
		N ₂ O (5)	0.03
		CO ₂ e	17,944.00
SCRU5-2	#5 CRU Platformer No.3 Intermediate Heater	CO ₂ (5)	2,119.00
		CH ₄ (5)	0.04
		N ₂ O (5)	0.00
		CO ₂ e	2,121.00
SCRU5-1	#5 CRU Platformer Heater	CO ₂ (5)	31,497.00
		CH ₄ (5)	0.59
		N ₂ O (5)	0.06
		CO ₂ e	31,529.00
SVPS4-1	VPS No. 4, No. 3 Atmospheric Heater	CO ₂ (5)	1.763.00
		CH ₄ (5)	0.03
		N ₂ O (5)	0.00
		CO ₂ e	1,764.00
SVPS4-2	Atmospheric Heater No. 1	CO ₂ (5)	2,087.00
		CH ₄ (5)	0.04

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
		N ₂ O (5)	0.00
		CO ₂ e	2,089.00
SVPS4-3	Atmospheric Heater No. 2	CO ₂ (5)	2,064.00
		CH ₄ (5)	0.04
		N ₂ O (5)	0.00
		CO ₂ e	2,066.00
SVPS4-4	VPS No. 4 Naphtha Splitter Reboiler	CO ₂ (5)	482.00
		CH ₄ (5)	0.01
		N ₂ O (5)	0.00
		CO ₂ e	483.00
SVPS4-5	Vacuum Heater No. 1	CO ₂ (5)	1,836.00
		CH ₄ (5)	0.03
		N ₂ O (5)	0.00
		CO ₂ e	1,838.00
SVPS4-6	Vacuum Heater No. 2	CO ₂ (5)	1,951.00
		CH ₄ (5)	0.04
		N ₂ O (5)	0.00
		CO ₂ e	1,953.00
SMPU3-1	MPU Refined Oil Mix Heater	CO ₂ (5)	1,615.00
		CH ₄ (5)	0.03
		N ₂ O (5)	0.00
		CO ₂ e	1,616.00
SMPU3-2	MPU No. 3 Extract Heater	CO ₂ (5)	3,272.00
		CH ₄ (5)	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
		N ₂ O (5)	0.01
		CO ₂ e	3,275.00
SMPU4	MPU 4 Secondary Heater Stack	CO ₂ (5)	77.00
		CH ₄ (5)	0.01
		N ₂ O (5)	0.00
		CO ₂ e	77.00
SMPU4	MPU4 No. 4 R.O. Heater	CO ₂ (5)	398.00
		CH ₄ (5)	0.01
		N ₂ O (5)	0.00
		CO ₂ e	398.00
SMPU4C	MPU No 4 Extract Heater	CO ₂ (5)	2,440.00
		CH ₄ (5)	0.05
		N ₂ O (5)	0.00
		CO ₂ e	2,443.00
SHTU4-3	Reboiler Heater	CO ₂ (5)	469.00
		CH ₄ (5)	0.01
		N ₂ O (5)	0.00
		CO ₂ e	469.00
SHTU4-4	Recycle Gas Heater	CO ₂ (5)	1,677.00
		CH ₄ (5)	0.03
		N ₂ O (5)	0.00
		CO ₂ e	1,679.00
SVPS5-1	VPS No.5, No.1/2 Atmospheric Heater	CO ₂ (5)	18,498.00
		CH ₄ (5)	0.35

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
		N ₂ O (5)	0.03
		CO ₂ e	18,517.00
SVPS5-1	VPS No.5, No.3/4 Atmospheric Heater	CO ₂ (5)	17,634.00
		CH ₄ (5)	0.33
		N ₂ O (5)	0.03
		CO ₂ e	17,653.00
SVPS5-2	VPS No.5, No.1 Vacuum Heater	CO ₂ (5)	7,820.00
		CH ₄ (5)	0.15
		N ₂ O (5)	0.01
		CO ₂ e	7,828.00
SVPS5-2	VPS No.5, No.2 Vacuum Heater	CO ₂ (5)	6,700.00
		CH ₄ (5)	0.13
		N ₂ O (5)	0.01
		CO ₂ e	6,707.00
SDCU2-1	Coker Heater No.1	CO ₂ (5)	4,392.00
		CH ₄ (5)	0.08
		N ₂ O (5)	0.01
		CO ₂ e	4,397.00
SDCU2-2	Coker Heater No.2	CO ₂ (5)	4,540.00
		CH ₄ (5)	0.09
		N ₂ O (5)	0.01
		CO ₂ e	4,545.00
SDCU2-3	Coker Heater No.3	CO ₂ (5)	4,576.00
		CH ₄ (5)	0.09

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
		N ₂ O (5)	0.01
		CO ₂ e	4,581.00
SNHTU2-1 Couldn't find this EPN on current MAERT of 6056	Naphtha Hydrotreater Charge Heater	CO ₂ (5)	3,268.00
		CH ₄ (5)	0.06
		N ₂ O (5)	0.01
		CO ₂ e	3,271.00
SNHTU2-2	Naphtha Hydrotreater Stripper Reboiler	CO ₂ (5)	6,153.00
		CH ₄ (5)	0.12
		N ₂ O (5)	0.01
		CO ₂ e	6,159.00
SNHTU2-3	Naphtha Hydrotreater Stripper Reboiler	CO ₂ (5)	9,792.00
		CH ₄ (5)	0.18
		N ₂ O (5)	0.02
		CO ₂ e	9,802.00
SRUGRP	SRU Incinerators Group (SBU1 & SBU2)	CO ₂ (5)	17,725.00
		CH ₄ (5)	0.18
		N ₂ O (5)	0.02
		CO ₂ e	17,735.00
CGN-GRP	Cogen Unit Group	CO ₂ (5)	44,063.00
		CH ₄ (5)	0.83
		N ₂ O (5)	0.08
		CO ₂ e	44,108.00

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) CO₂ - carbon dioxide
N₂O - nitrous oxide
CH₄ - methane
CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (11/2014):
CO₂ (x), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is for the Hydrocracker 2/Diesel Hydrotreater Unit expansion project only and does not represent the total potential to emit (PTE) for the listed sources.

Date: July 31, 2015



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Motiva Enterprises LLC
Authorizing the Construction and Operation of
Port Arthur Refinery
Located at Port Arthur, Jefferson County, Texas
Latitude 29° 52' 60" Longitude -93° 57' 30"

Permit: 8404 and PSDTX1062M1

Revision Date: June 15, 2016

Expiration Date: November 15, 2016

A handwritten signature in black ink, appearing to read "R. D. A. Hyle".

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled “Emission Sources--Maximum Allowable Emission Rates.” [30 TAC § 116.115(b)(2)(F)]¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to “air pollution” as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit 8404 and PSDTX1062M1

1. This permit authorizes emissions only from those points listed in the attached table entitled “Emission Sources – Maximum Allowable Emission Rates” (MAERT), and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions. **(10/13)**
2. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(5/16)**

Authorization	Source or Activity
PBR No. 112366	Tank 38624 Construction and Operation

Storage of Volatile Organic Compounds (VOC)

3. Storage tanks are subject to the following requirements. The control requirements specified in paragraphs A-E of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.50 pounds per square inch, absolute (psia) at the maximum expected operating temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons.
 - A. An internal floating deck or “roof” or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.
 - B. An open-top tank containing a floating roof (external floating roof tank) which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim-mounted. A weathershield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor-tight. Routing of tank emissions to the existing vapor recovery system is an approved alternative control.
 - C. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and seal gap measurements as specified in Title 40 Code of Federal Regulations § 60.113b (40 CFR § 60.113b) Testing

and Procedures (as amended at 54 FR 32973, Aug. 11, 1989) to verify fitting and seal integrity. Records shall be maintained of the dates seals were inspected and seal gap measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

- D. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998, except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.
- E. Except for logos, slogans, and similar displays (not to exceed 15 percent of the vertical tank shell area), uninsulated tank exterior surfaces exposed to the sun shall be white or aluminum. Storage tanks must be equipped with permanent submerged fill pipes.
- F. All vents/emissions from the following storage tanks shall be routed to a vapor recovery system: 1530, 1617, 1681, 1740, 1741, 1803, 1804, 1825, 1850, 1884, 1887, 1900, 2141, and 32451. **(6/16)**
- G. Storage tank 2139 shall be equipped with a pressure release valve and have no working or standing emission. **(6/16)**
- H. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the previous rolling 12-month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and rolling 12-month period. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures.

Emissions for tanks shall be calculated using the Texas Commission on Environmental Quality (TCEQ) publication dated February 2001, titled "Technical Guidance Package for Chemical Sources - Storage Tanks," and U.S. Environmental Protection Agency (EPA) Tanks Program Version 4.09d based on AP-42 "Compilation of Air Pollutant Emission Factors," Section 7.1. **(10/13)**

4. The holder of this permit shall maintain the temperature of the liquid in Tank 2127 at 420°F or below to maintain a vapor pressure of less than 0.024 psia at actual storage conditions. The tank temperature shall be continuously monitored and the temperature shall be recorded daily and during tank filling.

The monitor shall be calibrated or have a calibration check performed on an annual basis to meet an accuracy specification of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$. Calibration check means, at a minimum, using a second device or method to verify that the monitor is accurate as specified in the permit. **(5/16)**

5. Tank 2127 (EPN TK2127) service is limited to storing residual oils, fuel oil, and gas oil. Tank service for EPNs TK1920, TK1251, TK1787, and TK1525 are limited to storing refinery petroleum fractions containing <10% benzene or crude oil. **(5/16)**

VOC Loading and Unloading Operations

6. The following shall apply to railcar and truck loading and unloading (unloading at LR4 rack only) operations: **(8/07)**
 - A. At the LR4 loading rack all vessels to be loaded or unloaded, and at the CDTECH loading racks all vessels to be loaded, and all associated piping and connections at both racks, shall be pressure-rated (minimum 30 psig). Displaced loading vapors shall be routed to the vapor recovery system. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections during loading operations.
 - B. At the LR39 loading rack the following shall apply:
 - (1) All loading shall be submerged and rolling 12-month rack throughput records shall be updated on a monthly basis for each product loaded.
 - (2) The permit holder shall maintain and update monthly an emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12-month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks

which receive liquids that are at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations," dated October 2000.

- C. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections during loading operations.

Operating Parameters and Conditions

7. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than one weight percent are not authorized by this permit unless listed with associated individual emission limitations in the MAERT. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than 1 weight percent are not consistent with good practice for minimizing emissions with the exception of components listed in Attachment 1 to these conditions titled Pressure Relief Valves Exempt from Abatement.
8. This permit authorizes pilot emissions from the CRU No. 4 Flare System, CRU No. 4 Flare System, Delayed Coking Unit 1 Flare System, Delayed Coking Unit 1 Flare System, FCCU No. 3 Flare Stack, HCU No. 1 Flare Stack, HTU No. 4 Flare Stack, VPS No. 4 Flare Stack, VPS No. 2 Flare Stack, ARU No. 1 Flare Stack, ARU No. 2 Flare Stack, ALKY 4 Flare Stack, HTU No. 1 Flare Stack, HTU No. 2 Flare Stack, and HTU No. 3 Flare Stack. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity.
9. All combustion sources covered under this permit shall be fired with either sweet natural gas as defined in Title 30 Texas Administrative Code grain total sulfur expressed as hydrogen sulfide (H₂S) per dry standard cubic feet (dscf) (equivalent to 160 ppmv) on a rolling three-hour basis and no more than 120 ppmv on a rolling 24-hour basis. Additionally, the combustion sources fired with refinery fuel gas shall comply with the requirements of 40 CFR 60.104(a)(1), 60.105(a)(4), 60.106(e)(1), and 60.107(e).
10. There shall be no visible emissions from the following facilities, except for those periods described in 30 TAC § 111.111(a):
 - Heaters; and
 - Sulfur recovery unit (SRU) incinerators

11. The NO_x emissions from heaters listed below by Emission Point No. (EPN) and Facility Identification No. (FIN) shall not exceed the following:

EPN	FIN	Name/Description	(A)	(B)
SVPS2-1	VPS2ATM1HT, VPS2ATM2HT, VPS2ATM3HT, VPS2VAC1HT, and VPS2VAC2HT	VPS No. 2 Heaters – Combined Stack	287.5	0.04

- A. Maximum combined 12 month rolling average firing rate for heaters, MMBtu/hr
- B. Combined NO_x emissions for heaters, lb/MMBtu – 12 month rolling average

Compliance with these limits shall be determined by CEMS.

12. Process wastewater drains shall be equipped with water seals or equivalent; lift stations, manholes, junction boxes, and all other wastewater collection system components upstream of the API separator shall be equipped with either closed vent systems that route all organic vapor to control devices, or controls to prevent emission of the organic vapors to the atmosphere.

Water seals shall be checked by visual or physical inspection monthly for indications of low water levels or other conditions that would reduce the effectiveness of water seal controls. Water seals shall be restored as necessary. Records of these inspections and any corrective actions taken shall be maintained for a period of five years and made available to representatives of the Texas Commission on Environmental Quality upon request.

Piping, Valves, Connectors, Pumps, And Compressors in Contact with VOC – Intensive Directed Maintenance - 28MID

13. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:
- A. These conditions shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 psia at 68° F, or (2) operating pressure is at least 5 kilopascals (0.725 pound per square inch

[psi]) below ambient pressure. Equipment excluded from this condition shall be identified in a list to be made available upon request.

- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable ANSI, API, ASME, or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Non-accessible valves, as defined by 30 TAC Chapter 115, shall be identified in a list to be made available upon request.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. No later than the next scheduled quarterly monitoring after initial installation or replacement, all new or reworked connections shall be gas-tested or hydraulically-tested at no less than normal operating pressure and adjustments made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. Except during sampling, the second valve shall be closed.

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

An approved gas analyzer shall conform to requirements listed in 40 CFR § 60.485(a) - (b).

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC

is obtained for each component being maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

- G. All new and replacement pumps and compressors shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump and compressor seals emitting VOC shall be monitored with an approved gas analyzer at least quarterly.

- H. Damaged or leaking valves, connectors, compressor seals, and pump seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Every reasonable effort shall be made to repair a leaking component, as specified in this paragraph, within 15 days after the leak is found. If the repair of a component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown. All leaking components that cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. At the discretion of the TCEQ Executive Director or designated representative, early unit shutdown or other appropriate action may be required based on the number and severity of tagged leaks awaiting shutdown.
- I. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

- J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

Where:

- Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.
- Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor valves.
- Vp = the percentage of leaking valves for the monitoring period.
- K. The results of the required fugitive instrument monitoring and maintenance program shall be made available to the TCEQ Executive Director or designated representative upon request. Records shall indicate appropriate dates, test methods, instrument readings, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of physical inspections are not required unless a leak is detected.
- L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable NSPS, or an applicable NESHAPS, and does not constitute approval of alternative standards for these regulations. **(10/13)**

Quarterly Connector Monitoring – 28CNTQ

14. In addition to the weekly physical inspection required by Item E of Special Condition 10, all accessible connectors in gas or vapor and light and heavy liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Items F thru J of Special Condition 10.

- A. Connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

- B. The percent of connectors leaking used in paragraph A shall be determined using the following formula:

$$(Cl + Cs) \times 100 / Ct = Cp$$

Where:

- Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.
- Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.
- Cp = the percentage of leaking connectors for the monitoring period. **(10/13)**

15. Process drains shall be monitored quarterly at a leak definition of 500 ppmv and replaced or repaired in accordance with Items F and H of the Special Condition 10. Process drains shall be designed such that repairs to leaking drains can be performed. **(10/13)**
16. Valves in heavy liquid service shall be monitored quarterly at a leak definition of 500 ppmv and replaced or repaired in accordance with Items F and H of Special Condition 10. **(10/13)**

Cooling Towers

17. This condition applies to the following cooling towers: **(02/15)**

FIN	EPN	Location
FLCDU	FK33PH	Lube Catalytic Dewaxing Unit
VPS 2 FE	FKVPS2	Vacuum Pipestill 2
VPS NO4 FE	FKVPS4	Vacuum Pipestill 4
CRU 4 FE	FKCRU4	Catalytic Reforming Unit 4
HTU1FE	FKHTU1&2	Hydrotreating Unit 1
HTU2FE	FKHTU1&2	Hydrotreating Unit 2
HTU3FE	FKHTU3	Hydrotreating Unit 3
FHTU4	FK33PH	Hydrotreating Unit 4
FKDCU1	FKDCU1	Delayed Coking Unit 1
FCCU NO3FE	FKFCCU3	Fluid Catalytic Cracking Unit 3
FCCU NO2FE	FKFCCU1&2	Alkylation Unit
MPU3FE	FKMPU3	Methyl Pyrollidone Unit 3
FMPU4	FKMPU4	Methyl Pyrollidone Unit 4
SRU 4 FE	FKVPS1	Sulfur Recovery Unit 4

- A. The cooling tower water shall be monitored monthly for VOC leakage from heat exchangers in accordance with the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or another air stripping method approved by the TCEQ Executive Director.
- B. Cooling water VOC concentrations above 0.08 ppmw indicate faulty equipment. Equipment shall be maintained so as to minimize VOC

emissions into the cooling water. At all cooling towers existing prior to the CEP, faulty equipment shall be repaired at the earliest opportunity, but no later than the next planned shutdown of the process unit in which the leak occurs.

Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.8 ppmw. The VOC concentrations above 0.8 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded.

- C. All records shall be maintained at the plant site for a period of five years and made available to representatives of the TCEQ upon request.
18. The permit holder shall conduct an analysis of the heat exchanger systems and associated process equipment served by the Alkylation Unit Cooling Tower (FIN FCCU NO2FE, EPN FKFCU1&2), and the heat exchanger systems and associated process equipment served by the Catalytic Reforming Unit 4 Cooling Tower (FIN CRU 4 FE, EPN FKCRU4). The analysis shall identify and assess the available options for reducing the frequency and magnitude of leaks of process fluid into these cooling water systems. The analysis shall address all options that are economically reasonable and technically practicable. Within 12 months after the renewal of this permit, the holder shall submit a report to the Air Permits Division setting forth its analysis and making its recommendations regarding implementation of identified options. In consultation with the permit holder, the Air Permits Division will determine if any of the options identified in the report should be implemented, and will notify the permit holder accordingly in writing. Within six months after its receipt of any such notice, the permit holder shall submit an amendment application or alteration request, as appropriate, to implement the option(s) identified in the notice.
19. This condition applies to FKHTU-5 (Hydrotreater Unit No. 5 Cooling Tower).
- A. The VOC associated with cooling tower water shall be monitored monthly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method. The results of the monitoring, cooling water flow rate and maintenance activities on the cooling water system shall be recorded. The monitoring results and cooling water hourly mass flow rate shall be used to determine cooling tower hourly VOC emissions. The rolling 12-month cooling water emission rate shall be recorded on a monthly basis and be determined by summing the VOC emissions between VOC monitoring periods over the rolling 12-month period. The emissions between VOC monitoring periods shall be obtained by multiplying the total cooling water mass flow between

cooling water monitoring periods by the higher of the two VOC monitored results. If the rolling 12-month VOC emissions exceeds the individual annual emission limit for FKHTU-5 - Hydrotreater Unit No. 5 Cooling Tower, a report shall be submitted to the appropriate TCEQ Regional Office within 30 days containing details as to the reasons for the exceedance.

- B. The heat exchange and cooling tower systems shall be maintained so as to minimize VOC emissions into the cooling waters. Faulty equipment shall be repaired at the earliest opportunity; however, leaking equipment shall be repaired no later than 45 days after a VOC concentration equal to or greater than 0.04 ppmw is discovered during the monthly monitoring.
- C. Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.8 ppmw. The VOC concentrations above 0.8 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded. All records shall be maintained at the plant site for a period of five years and made available to representatives of the TCEQ upon request.

Piping, Valves, Pumps, and Compressors in H₂S Service

- 20. In addition to the monitoring required in Special Conditions 10, 11, and 12, the following requirements shall apply to all piping, valves, pumps, and compressors with greater than 1 weight percent H₂S: **(02/15)**
 - A. Audio, olfactory, and visual checks for H₂S leaks within the operating area shall be made once each shift while the facility is operating.
 - B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take the following actions:
 - (1) Stop the leak by taking the equipment out of service or bypass the equipment so that it is no longer in service.
 - (2) Isolate the leak.
 - (3) Commence repair or replace the leaking component.
 - (4) If the leak cannot be repaired within six hours, the holder of this permit shall use a leak collection or containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

Records shall be maintained at the plant site of the time leaks were detected and all repairs and replacements made due to leaks. These records shall be maintained for a period of five years and made available to representatives of the TCEQ upon request.

Piping, Valves, Pumps, and Compressors in SO₂ or NH₃ Service

21. In addition to the monitoring required in Special Conditions 10, 11, and 12, piping, valves, pumps, and compressors in SO₂ or NH₃ service are subject to the following requirements:
- A. Audio, olfactory, and visual checks for SO₂ and NH₃ leaks within the SRUs, ARUs, and SWSs.
 - B. Immediately, but no later than one hour upon detection of a leak, the holder of this permit shall take one of the following actions:
 - (1) Isolate the leak.
 - (2) Commence repair or replacement of the leaking component.
 - (3) Use a leak collection or containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.
 - C. The date and time of each inspection shall be recorded in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be maintained at the plant site for a period of five years and made available to the TCEQ Executive Director or his designated representative upon request.

Fluidized Catalytic Cracking Unit (FCCU)

22. The following applies to the FCCU regeneration vent/vent gas stack (EPN SFCCU3-2):
- A. The maximum allowable concentration of the following pollutants in the FCCU vent gas stack (EPN SFCCU3-2) are:

Pollutant	Hourly	24-hr Avg.	Annual	Basis
CO	500 ppmv		500 ppmv	(dry, 0%

				O ₂)
SO ₂	157 ppmv	50 ppmv*	25 ppmv*	(dry, 0% O ₂)
NO _x	109 ppmv	68 ppmv*	42.8 ppmv*	(dry, 0% O ₂)
VOC	15 ppmv		15 ppmv	(dry)

* – These limits are required by EPA Consent Decree No. H-01-0978. The annual limits apply to rolling 365 day periods.

- B. The total particulate matter (PM) emissions from the FCCU Vent Gas Stack (EPN SFCCU3-2) shall not exceed one pound per 1,000 pounds of coke burn-off.

Alkylation Unit

23. All waste gas streams containing sulfuric acid (H₂SO₄) shall be routed to the caustic scrubber to provide 99 percent removal of H₂SO₄ being routed to the flare. Storage tank vents, cooling tower exhaust, and process fugitive emissions are excluded from this requirement. Any other exception to this condition requires prior approval by the TCEQ Executive Director, and such exceptions may be subject to strict monitoring requirements.
24. The vents of the Spent H₂SO₄ Acid Tanks (EPNs TAL35142 and TAL35143) shall be routed through an alkaline eductor to the plant vapor recovery system.
25. Sampling ports and platform(s) shall be incorporated into the design of the outlet of the blowdown vapor stack according to the specifications set forth in the enclosure entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.
26. The caustic scrubber system solution shall be sampled at the outlet of the scrubber and analyzed for weight percent caustic daily. These records shall be maintained at the plant site for a period of five years and made available to the TCEQ Executive Director or his designated representative upon request. Caustic shall be changed out when the level concentration of caustic is 1 percent or less.

Delayed Coking Units

27. All conveyors shall be covered and water sprays shall be installed and operated as necessary at all coke product transfer points in order to control coke dust emissions to the minimum level possible under existing conditions.
28. Coke stockpiles shall be sprinkled with water and/or chemicals as necessary to control coke dust emissions to the minimum level possible under existing conditions.
29. All truck traffic hauling coke shall be on paved roads from the DCU limits to the plant property line. These roads shall be cleaned upon visible detection of coke particulate emissions.
30. The undercarriage of all coke trucks leaving the plant site shall be washed with water, and the coke load shall be covered with a canvas or similar type of covering firmly secured to reduce particulate emissions.
31. As determined by a trained observer, no visible emissions from coke handling facilities shall leave the plant property.
32. Coke product may be hauled off-site by rail, truck, or conveyor. Rail or conveyor shall be the primary mode of transportation. A water truck in operating condition shall be kept at the plant when coke product is being hauled off-site by truck. The water truck shall be used to control fugitive dust emissions. The TCEQ Regional Office shall be notified when coke loadout operations using trucks commence.
33. The moisture of the coke in the primary coke pad shall be maintained in a visibly wet condition at a level of 8.0 percent or greater. The holder of this permit shall take samples of the coke on the conveyer system transferring coke from the coke pad to the storage silo on each day that transfers are being made and analyze the samples for moisture content and record the results. Compliance with the moisture content requirement shall be determined based on the weekly average of the moisture content measured for the various days during the calendar week.

Periodic Determination of Compliance

34. Upon request from the TCEQ Executive Director or in accordance with Special Condition No. 32, the holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the following sources:

Heaters and boilers with firing rates equal to or greater than 40 MMBtu/hr
(EPNs SCDHydro/SCHDS2, SDCU1-2, SFCCU3-1, SHCU1-1, SHCU1-2, SHCU1-3,

SHCU1-4, SHCU1-5, SHTU2-1, SHTU2-2, SHTU3-1, SHTU3-2, SHTU4-4, SHTU-5, SMPU3-1, SMPU3-2, SMPU4, SMPU4C, SVPS2-1, SVPS2-2, SVPS4-1, SVPS4-4, SVPS4-2, SVPS4-3, SVPS4-5, SVPS4-6, and SVPS4-7) and the FCCU Regenerator (EPN SFCCU3-2).

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

- A. The appropriate TCEQ Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.
The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format and procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or the EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in B of this condition shall be submitted to the TCEQ Office of Air, Air Permits Division in Austin. Test waivers and alternate or equivalent procedure proposals for NSPS testing that must have the EPA approval shall be submitted to the TCEQ Regional Director.

- B. Air contaminants to be tested for include (but are not limited to) the following for the various units:
- (1) Heaters and boilers – NO_x, SO₂ and CO.
 - (2) FCCU Regenerator – PM (both front and back-half of the sampling train), SO₂, and VOC.

- C. Each emission point subject to stack emission testing shall be tested within 180 days of receiving a request from the Executive Director. Testing shall be conducted when the facility (or facilities) directly associated with the emission point is operating at maximum emissions potential (e.g., maximum production, throughput, firing rate, etc.) Primary operating parameters that enable determination of maximum emissions potential shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the plant is unable to operate at maximum emissions potential during testing, then future operations may be limited based on the rates established during testing.
 - D. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed to the appropriate TCEQ Regional Office. **(10/13)**
35. Attachment 6 to these conditions lists production units with charge/production rates and combustion sources associated with those units. Upon request from the TCEQ Executive Director, or when a unit in that list exceeds its listed charge/production rate by more than 15 percent in any 24-hour period, the holder of this permit shall perform stack sampling and other testing as required, in accordance with Special Condition No. 31, to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the combustion sources listed in Attachment 6.
36. The Reformer Regeneration Vent (EPN SCR4-2) is subject to the following requirements:
- A. The vent shall be routed through a caustic scrubber prior to discharge to the atmosphere. The scrubber shall be designed to control hydrogen chloride (HCl) emissions to an outlet concentration of 10 ppmv or an overall control efficiency of 99 percent, whichever is less stringent.
 - B. The scrubbing solution shall be maintained at or above a pH of 7.0 and analyzed once daily with a pH meter.
 - C. The inlet and outlet HCl emissions shall be tested daily with an approved portable analyzer.
 - D. Records of the analytical and testing results and the actual testing methods used shall be maintained at the plant site for a period of five years and made available to the TCEQ Executive Director or his designated representative upon request.

Continuous Determination Of Compliance

37. The holder of this permit shall install, calibrate, operate, and maintain CEMSs to measure and record the following:
- A. The NO_x, and O₂ from the No. 4 CRU Heater Stack (EPN SCRU4-1) and the No. 2 Vacuum Pipe Still combined heater stack (EPN VPS2-1);
 - B. The NO_x, CO, O₂, and SO₂ from the FCCU Regenerator (EPN SFCCU3-2); and
 - C. H₂S in representative locations in the refinery fuel gas system in accordance with the fuel sulfur monitoring requirements of 40 CFR § 60.105. **(10/13)**
38. The CEMS shall meet the following requirements:
- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.
 - B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; Section 2 applies to all other sources:
 - (1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.
 - (2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required

on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

Each monitor shall be quality-assured at least quarterly using Cylinder Gas Audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1.2, with the following exception: a relative accuracy test audit (RATA) is **not** required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

All CGA exceedances of ± 15 percent accuracy indicate that the CEMS is out of control.

- C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of pounds/hour at least once every week in accordance with Attachment 3 of these conditions, entitled "Calculation of Emission Rates from CEMS Data."
 - D. All monitoring data and quality assurance data shall be maintained by the source. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
 - E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.
 - F. Quality-assured (or valid) data must be generated when the facility generating emissions is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the facility generating emissions operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgement and the methods used recorded. Options to increase system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Regional Manager.
39. The holder of this permit shall install, calibrate, operate, and maintain a continuous opacity monitoring system (COMS) to measure and record the opacity from the FCCU Regenerator (EPN SFCCU3-2). An approved alternate

monitoring plan for opacity pursuant to 40 CFR Part 60, Subpart J and/or 40 CFR Part 63, Subpart UUU may be used in lieu of a COMS on the FCCU Regenerator. The COMS monitoring system shall meet the following requirements:

- A. The COMS shall meet 40 CFR Part 60, Appendix B Performance Specification No 1.
- B. The COMS shall meet the requirements of 40 CFR § 60.13. The appropriate TCEQ Regional Manager will be the administrator for alternate monitoring requests, except where the monitoring is also required by an applicable NSPS, 40 CFR Part 60 or NESHAP, 40 CFR Part 61 or 40 CFR Part 63, where EPA Region 6 remains the administrator for alternate monitoring requests. Alternate monitoring requests should be submitted to the appropriate TCEQ Regional Director and EPA Region 6, when they are the administrator, with copies to any local air pollution programs.
- C. Monitoring data shall be recorded and maintained as specified in 40 CFR § 60.7(c), (d), (e), and (f).
- D. The appropriate TCEQ Regional Office and any local air pollution programs shall be notified at least 30 days prior to any required initial performance evaluation.
- E. Quality-assured (or valid) data must be generated when the FCCU is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the FCCU is operated over the previous rolling 12-month period.

Emission Compliance Recordkeeping

- 40. Records of all compliance testing, CEM results, process parameters (including short-term production rates, firing rates, etc.), and any other data used to demonstrate compliance with emission rate limitations shall be maintained on-site for a period of five years and made available to designated representatives of TCEQ upon request.

Emission calculations to demonstrate compliance with the annual emission rate limitations, which are on a 12-month rolling average basis, shall be performed at

least once every calendar quarter. Demonstration of compliance shall be based on the emission calculation methods described below.

A. Tanks:

- (1) Routine emissions shall be calculated based on AP-42, Chapter 7 (Fifth Edition), using the physical property data of the material stored and the actual tank configuration. Short-term emission rates shall be based on the maximum expected filling rate for fixed-roof tanks and the higher of the filling rate or withdrawal rate for internal and external floating roof tanks. Rolling 12-month emission rates shall be based on actual rolling 12-month throughput rates.
- (2) Emissions from landing and refloating roofs of floating roof tanks for purposes of planned maintenance shall be calculated using API Technical Report 2567, "Evaporative Loss from Storage Tank Floating Roof Landings," dated April 2005. These emissions shall be increased as provided for by Equation No. 5 of the API report, taking into account the number of elapsed days after the tank roof is landed and until all sources of VOC vapor generation (including pools, puddles, leaking pontoons, etc.) are removed prior to refloating the roof.

- B. Loading emissions shall be calculated as described in the permit condition entitled VOC Loading Operations, using the physical property data of the material loaded, rolling 12-month throughput for annual emissions, and loading rates for short-term emissions.
- C. Fugitives - Emissions shall be calculated based on component counts and corresponding emission factors consistent with TCEQ guidance as of November 15, 2006, including reduction credits consistent with the implementation of the 28VHP, 28MID, and AVO maintenance programs.
- D. Boilers/Heaters – Emissions shall be calculated based on CEM information, if required for the source. If CEM information is not available, emissions shall be calculated based on the most recent stack sampling results, if available. If no stack sampling data is available, emissions shall be calculated using the appropriate emission factor for the specific source and the measured daily heating value and average flow rate of the fuel gas.
- E. FCCU – Emissions shall be calculated based on CEM information, if required for the source. If CEM information is not available, emissions shall be calculated based on the most recent stack sampling results for

those compounds, if available. If no stack sampling results are available, use the appropriate emission factor for the specific source. The holder of this permit shall record once-per-day the average coke burn-off rate and hours of operation of the FCCU catalyst regenerator.

- F. Cooling Towers – Emissions shall be calculated based on actual sampling results and average quarterly recirculation rates.
- G. Coke Handling Operations – Emissions shall be calculated based on AP-42, Chapter 13.2.4.2 (Fifth Edition), using monthly throughput rates.
(10/13)

Compliance Assurance Monitoring

- 41. Compliance Assurance Monitoring requirements will be met as outlined in Attachment 5 to these conditions. The following requirements also apply to capture systems for EPN SFCCU3-2 and SCR4-2. **(12/14)**
 - A. If used to control pollutants other than particulate, either:
 - (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
 - (2) Once a year, verify the capture system is leak free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. The control devices shall not have a bypass.
 - C. If any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

Federal Applicability

- 42. These facilities shall comply with all applicable requirements of EPA regulations on Standards of Performance for New Stationary Sources in 40 CFR Part 60, Subparts A, Db, J, K, Ka, Kb, GG, VV, GGG, and QQQ. **(05/11)**
- 43. These facilities shall comply with all applicable requirements of the EPA regulations on NESHAPS in 40 CFR Part 61, Subparts A, M, and FF.
- 44. These facilities shall comply with all applicable requirements of the EPA regulations on NESHAPS for Source Categories in 40 CFR Part 63, Subparts A, CC, UUU, YYYY, DDDDD, and GGGGG.

45. The limits or requirements identified below apply to the operations of the specified facilities during startup and shutdown. Emissions shall be estimated using good engineering practice and methods to provide reasonably accurate representations for emissions. **(02/15)**

The FCCU as identified as EPN SFCCU3-2:

- A. shall not exceed 500 ppmvd CO at zero percent excess air on an hourly basis for more than ten days;
 - B. shall not exceed 300 ppmv SO₂ on an hourly basis for more than three days;
 - C. shall not exceed 25 ppmvd SO₂ at zero percent excess air on a 365-day rolling average basis for more than three days;
 - D. shall not exceed 50 ppmvd SO₂ at zero percent excess air on a 24-hour rolling average basis for more than three days;
 - E. shall not exceed 200 ppmv NO_x on a hourly average basis for more than three days;
 - F. shall not exceed 68 ppmvd NO_x at zero percent excess air on a 24-hour average basis for more than three days;
 - G. shall not exceed 42.8 ppmvd NO_x at zero percent excess air on a 365-day rolling average basis for more than three days; and
 - H. shall not exceed 1lb PM/1000 lb coke burned for more than fourteen days.
46. The FCCU "Reliability Project" (amendment application dated December 9, 2013) was determined not to be subject to major new source review. The projected actual emissions, baseline actual emissions, capable of having been accommodated (COA) emissions, and the facilities affected by the project are itemized as represented in the application update (*Permitted Facilities and Emissions Summary Table; Projected Actuals, Baseline, COA*) received October 29, 2014.

The permit holder shall comply with the monitoring, recordkeeping and reporting requirements of 30 TAC §116.127 with respect to the facilities identified in this paragraph. Total actual emissions from the referenced facilities shall be monitored and recorded in accordance with Title 30 of the Texas Administrative Code (30 TAC) §116.127(b).

If during any rolling 12-month period during the 60 months following the completion of the above referenced modification, the total actual emissions of any constituent identified in the referenced table exceed the difference between its major modification threshold and its authorized projected actual emissions, the permit holder shall submit a

report to the Division Director, TCEQ Air Permits Division, in accordance with 30 TAC §116.127(d). **(12/14)**

Routine Maintenance, Startup, and Shutdown

47. Maintenance, start-up and shut-down activities associated with facilities authorized by this permit are authorized in Permit 6056. **(02/15)**

Dated: June 15, 2016

Attachment 1
Permit 8404 and PSDTX1062M1

Pressure Relief Valves Exempt from Abatement

UNIT	PRV NO.
VPS2	3027, 3246, 00263, 02722, 02723, 02724, 02725, 02754, 03065, 4786, 491, 6924, 09709, 09710, 09711, 09712, and 09713
VPS4	11222, 11223, 11224, 11225, 01244, 01245, 01246, 01247, 01248, and 01249
No. 27PH	12911
No. 4LR	6656
ALKY	6710, 6711, 6712, 7300, and 7301
UTILITIES	5383
CRU4	03828, 03829, 11801, and 11802
FCCU3	8269, 7998, 12339, 12342, 12344, 00609, 00636, 01870, 0287, 04269, 04270, 04272, 8121, 8123, 08087, 08115, 08119, 08150, 08184, 08185, 08186, 08729, 12034, 8277, 8271, 11837, 8116, 3192, 3193, 4271, 08001, 08003, 08004, 08005, 08008, and 08025
HTU2	5861 and 5862
MPU3	12001, 12002, 12009, 12010, 12025, 12023, 12024, 12005, 12006, 12003, 12004, 12030, 12007, 12008, 4817, 11694, 4180, 4182, and 4183
MPU4	12424, 12425, 12422, 12423, 4290, 4291, 754, 756, 12409, 12417, 12418, 12420, 12421, 3237, 4808, 6467, 5784, 5785, 11831, 12412, 12413, and 12427

Dated: August 21, 2012

Attachment 2
Permit 8404 and PSDTX1062M1

[Reserved]

Attachment 3
Permit 8404 and PSDTX1062M1

Calculation of Emission Rates from CEMS Data

(1) Heaters and Boilers:

Emission Rate, lb/hr =

$$\text{ppmd} * (\text{Firing Rate, MMBtu/hr}) * C_d * F_d * [20.9 / (20.9 - O_2\%_d)]$$

where: ppmd = pollutant concentration (dry) in ppm from CEMS

Firing Rate (MMBtu/hr) = firing rate determined from the measured fuel gas firing rate (scf/hr) times the fuel gas heating value (MMBtu/scf) from the most recent fuel gas sample

$$C_d (\text{NO}_x) = 1.194 \times 10^{-7} \text{ lb}/(\text{scfd-ppmd})$$

$$C_d (\text{CO}) = 0.7268 \times 10^{-7} \text{ lb}/(\text{scfd-ppmd})$$

$$C_d (\text{NH}_3) = 0.4413 \times 10^{-7} \text{ lb}/(\text{scfd-ppmd})$$

F_d (scfd/MMBtu) = F factor as determined by 40 CFR 60, Appendix A, Method 19 or by reference to a site-specific table of F_d versus fuel gas heating value approved by the Executive Director

$O_2\%_d$ = percent oxygen (dry) from the O_2 CEMS

(2) FCCU Regenerator:

$$\text{NO}_x (\text{lb/hr}) = 265.7 \text{ lb/hr} * (\text{NO}_x \text{ ppmvd}/200 \text{ ppm}) * (\text{Coke Burn}/71,166 \text{ lb/hr})$$

$$\text{CO} (\text{lb/hr}) = 875.7 \text{ lb/hr} * (\text{CO ppmvd}/500 \text{ ppm}) * (\text{Coke Burn}/71,166 \text{ lb/hr})$$

$$\text{SO}_2 (\text{lb/hr}) = 340.0 \text{ lb/hr} * (\text{SO}_2 \text{ ppmvd}/300 \text{ ppm}) * (\text{Coke Burn}/71,166 \text{ lb/hr})$$

where: NO_x , CO, and SO_2 ppmvd = the pollutant concentration from the CEMS in ppmv (dry) at 0% O_2

Coke Burn = the daily average coke burn measured for the corresponding day in lb/hr

Upon approval of the TCEQ Executive Director, the permit holder may use alternative methods to calculate emissions in pounds per hour from the CEMS results for the sources listed above.

Dated: October 16, 2013

Attachment 4
Permit 8404 and PSDTX1062M1

[Reserved]

Attachment 5
Permit 8404 and PSDTX1062M1

Compliance Assurance Monitoring

EPN	Unit Name	CAM Basis*	CAM Option
SFCCU3-2	FCCU No. 3 Regenerator	MACT UUU	Satisfies CAM requirements
SCRU4-2	Regen Vent Scrubber Emission	MACT UUU	Satisfies CAM requirements
ECRU4	CRU No. 4 , LDCU, 3 Power Station	CAM Guidance	Pilot Flame Observation with Camera
EDCU1	DCU1, SBU1 (including ARUs)	CAM Guidance	Pilot Flame Observation with Camera
EFCCU3	FCCU	CAM Guidance	Pilot Flame Observation with Camera
EHCU	LHCU (HCU1), HTU1, HTU2, HTU3, HTU5, WSGP, WAGS	CAM Guidance	Pilot Flame Observation with Camera
EHTU	HTU4	CAM Guidance	Pilot Flame Observation with Camera
EVPS4	VPS4, VPS2, MPU3	CAM Guidance	Pilot Flame Observation with Camera
EFCCU1&2	ALKY	CAM Guidance	Pilot Flame Observation with Camera

* “CAM Guidance” refers to TCEQ Compliance Assurance Monitoring Guidance Document - February 2003 - Draft.

Dated: October 16, 2013

Attachment 6
Permit 8404 and PSDTX1062M1

Unit Name	Rate *	EPN	Source Name
Catalytic Reforming Unit No. 4 (CRU4)	52,000	SCRU4-1	Combined Heater Stack
Delayed Coking Unit (DCU)	65,000	SDCU1-1	Coker Heater No. 1
		SDCU1-2	Coker Heater No. 2
Fluid Catalytic Cracking Unit No. 3 (FCCU3) and CD-HDS Unit (FCC Naphtha Desulfurization)	90,000	SFCCU3-1	Charge Heater
		SFCCU3-2	CO Boiler
		SCDHydro/ CDHDS2	Charge Heater 1
		SDHydro/ SCHDS2	Charge Heater 2
Hydrocracking Unit (HCU)	25,000	SHCU1-1	No. 1 Reactor Heater
		SHCU1-2	No. 2 Reactor Heater
		SHCU1-3	Preflash Reboilers
		SHCU1-4	Fractionator Reboiler
Hydrotreating Unit No. 1 (HTU1)	20,000	SHTU1-1	Charge Heater
Hydrotreating Unit No. 2 (HTU2)	42,000	SHTU2-1	Charge Heater
		SHTU2-2	Rerun Tower Reboiler
Hydrotreating Unit No. 3 (HTU3)	44,000	SHTU3-1	Charge Heater
		SHTU3-2	Rerun Tower Reboiler

Unit Name	Rate *	EPN	Source Name
Hydrotreating Unit No. 4 (HTU4)	42,000 ³ / 18,000 ²	SHTU4-1	Charge Heater No. 1
		SHTU4-2	Charge Heater No. 2
		SHTU4-3	Reboiler Heater
		SHTU4-4	Recycle Gas Heater
Hydrotreating Unit No. 5 (HTU5)	45,000	SHTU5	Charge Heater
Lube Catalytic Dewaxing Unit (LCDU)	16,000	SLCDU1-1	Charge Heater
		SLCDU1-2	Reactor Heater
Methyl Pyrolidone Unit No. 3 (MPU3)	29,000/ 36,000 ¹	SMPU3-1	Heater
		SMPU3-2	Heater
Methyl Pyrolidone Unit No. 4 (MPU4)	81,000	SMPU4	R. O. and Secondary Raffinate Heaters
		SMPU4C	Extract Heater
		STGTU2-1	TGTU No. 2 Incinerator
		STGTU1-2	Hot Oil Heater
		STGTU2-2	Hot Oil Heater
Vacuum Pipe Still No. 2 (VPS2)	80,000	SVPS2-1	Common Heater Stack
		SVPS2-2	Atmospheric Heater No. 4 Stack

Unit Name	Rate *	EPN	Source Name
Vacuum Pipe Still No. 4 (VPS4)**	200,000	SVPS4-1	Atmospheric C Heater
		SVPS4-2	Atmospheric A Heater
		SVPS4-3	Atmospheric B Heater
		SVPS4-4	Naphtha Reboiler
		SVPS4-5	Vacuum Heater A
		SVPS4-6	Vacuum Heater B
		SVPS4-7	Common Heater Stack

* Charge/production rate, barrels/day

** Stack sampling will be required for either SVPS4-7 (which is the combined stack) or individually for SVPS4-2, SVPS4-3, SVPS4-5, and SVPS4-6. Either sampling scenario is acceptable.

¹ Charge/Solvent Rates

² Lube Train Section

³ Gasoil throughput increased from 26,000 BPSD in amendment approved February 2001

Dated: October 16, 2013

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 8404 and PSDTX1062M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FKCRU4	CRU 4 Cooling Tower (5)	VOC	0.04	0.16
		Benzene	0.01	0.01
		Chlorine	0.06	0.27
FKFCCU1&2	Alky Cooling Tower (5)	VOC	1.49	6.53
		Benzene	0.01	0.01
		Chlorine	0.18	0.81
FKFCCU3	FCCU 3 Cooling Tower (5)	VOC	4.41	19.32
		Benzene	0.01	0.01
		Chlorine	0.54	2.38
FK33PH	No. 33PH East Cooling Tower (5)	VOC	0.09	0.41
		Benzene	0.01	0.01
		Chlorine	0.04	0.18
FKDCU1	DCU 1 Cooling Tower (5)	VOC	0.06	0.28
		Benzene	0.01	0.01
		Chlorine	0.11	0.48
FK33PH	No. 33PH West Cooling Tower (5)	VOC	0.02	0.10
		Benzene	0.01	0.01
		Chlorine	0.04	0.18

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FKMPU4	MPU No. 4 Cooling Tower (5)	VOC	0.07	0.29
		Benzene	0.01	0.01
		Chlorine	0.11	0.50
FKHTU1&2	HTU No. 1 and 2 Cooling Tower (5)	VOC	0.03	0.14
		Benzene	0.01	0.01
		Chlorine	0.05	0.20
FKHTU3	HTU No. 3 Cooling Tower (5)	VOC	0.01	0.04
		Benzene	0.01	0.01
		Chlorine	0.02	0.07
FKMPU3	MPU No. 3 Cooling Tower (5)	VOC	0.07	0.29
		Benzene	0.01	0.01
		Chlorine	0.11	0.50
FKHTU5	HTU5 Cooling Tower (5)	VOC	0.28	1.25
FKVPS1	VPS No. 1 Cooling Tower (5)	VOC	0.02	0.08
		Benzene	0.01	0.01
		Chlorine	0.03	0.14
FKVPS2	VPS No. 2 Cooling Tower (5)	VOC	1.09	4.78
		Benzene	0.01	0.01
		Chlorine	0.13	0.59
FKVPS4	VPS No. 4 Cooling Tower (5)	VOC	1.05	4.60
		Benzene	0.01	0.01
		Chlorine	0.13	0.57

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
Combustion Sources				
SFCCU3-2	FCCU No. 3 Regenerator	NOx	149.00	256.09
		VOC	20.63	90.35
		SO2	299.00	208.28
		CO	415.87	1,821.49
		PM	71.17	311.71
		PM10	71.17	311.71
		PM2.5	71.17	311.71
SCRU4-1	Combined Heater Stack **	NOx	47.47	178.23
		VOC	4.27	16.02
		SO2	29.47	65.84
		CO	65.16	244.63
		PM	5.90	22.13
		PM10	5.90	22.13
		PM2.5	5.90	22.13
SCDHDS1	CDHDS1 Heater	NOx	4.38	14.06
		VOC	0.39	1.26
		SO2	2.72	5.19
		CO	6.00	19.30
		PM	0.54	1.75
		PM10	0.54	1.75
		PM2.5	0.54	1.75

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SFCCU3-1	FCCU 3 Charge Heater	NOx	9.91	25.31
		VOC	0.89	2.27
		SO ₂	6.15	9.35
		CO	13.60	34.74
		PM	1.23	3.14
		PM ₁₀	1.23	3.14
		PM _{2.5}	1.23	3.14
SHCU1-1	HCU No. 1 Reactor No.1 Heater	NOx	4.20	15.77
		VOC	0.28	1.06
		SO ₂	1.96	4.37
		CO	4.32	16.23
		PM	0.39	1.47
		PM ₁₀	0.39	1.47
		PM _{2.5}	0.39	1.47
SHCU1-2	HCU No. 1 Reactor No.2 Heater	NOx	5.32	19.97
		VOC	0.36	1.35
		SO ₂	2.48	5.53
		CO	5.48	20.56
		PM	0.50	1.86
		PM ₁₀	0.50	1.86
		PM _{2.5}	0.50	1.86

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SHCU1-3	HCU No. 1 Preflash Boiler	NOx	7.19	26.98
		VOC	0.48	1.82
		SO ₂	3.35	7.48
		CO	7.40	27.77
		PM	0.67	2.51
		PM ₁₀	0.67	2.51
		PM _{2.5}	0.67	2.51
SHCU1-4	HCU No. 1 Fractionator Boiler	NOx	7.20	31.54
		VOC	0.49	2.13
		SO ₂	3.35	8.74
		CO	7.41	32.46
		PM	0.67	2.94
		PM ₁₀	0.67	2.94
		PM _{2.5}	0.67	2.94
SHTU1-1	HTU No. 1 Charge Heater	NOx	2.45	9.20
		VOC	0.22	0.83
		SO ₂	1.52	3.40
		CO	3.36	12.62
		PM	0.30	1.14
		PM ₁₀	0.30	1.14
		PM _{2.5}	0.30	1.14

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SHTU2-1	HTU No. 2 Charge Heater	NOx	3.78	14.19
		VOC	0.34	1.28
		SO ₂	2.35	5.24
		CO	5.19	19.48
		PM	0.47	1.76
		PM ₁₀	0.47	1.76
		PM _{2.5}	0.47	1.76
SHTU2-2	HTU No. 2 Reboiler	NOx	2.94	11.04
		VOC	0.26	0.99
		SO ₂	1.83	4.08
		CO	4.04	15.15
		PM	0.37	1.37
		PM ₁₀	0.37	1.37
		PM _{2.5}	0.37	1.37
SHTU3-1	HTU No. 3 Charge Heater	NOx	4.21	15.79
		VOC	0.38	1.42
		SO ₂	2.61	5.83
		CO	5.77	21.68
		PM	0.52	1.96
		PM ₁₀	0.52	1.96
		PM _{2.5}	0.52	1.96

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SHTU3-2	HTU No. 3 Reboiler	NOx	4.23	14.48
		VOC	0.38	1.30
		SO ₂	2.62	5.35
		CO	5.80	19.87
		PM	0.53	1.80
		PM ₁₀	0.53	1.80
		PM _{2.5}	0.53	1.80
SHTU4-1	CHGE Heater 1	NOx	3.83	9.15
		VOC	0.21	0.49
		SO ₂	1.43	2.03
		CO	3.15	7.54
		PM	0.29	0.68
		PM ₁₀	0.29	0.68
		PM _{2.5}	0.29	0.68
SHTU4-2	CHGE Heater 2	NOx	3.83	9.15
		VOC	0.21	0.49
		SO ₂	1.43	2.03
		CO	3.15	7.54
		PM	0.29	0.68
		PM ₁₀	0.29	0.68
		PM _{2.5}	0.29	0.68

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SHTU4-3	Reboiler Heater	NOx	2.33	6.66
		VOC	0.16	0.45
		SO ₂	1.09	1.84
		CO	2.40	6.85
		PM	0.22	0.62
		PM ₁₀	0.22	0.62
		PM _{2.5}	0.22	0.62
SHTU4-4	Recycle Gas Heater	NOx	8.22	28.17
		VOC	0.55	1.90
		SO ₂	3.83	7.81
		CO	8.46	29.00
		PM	0.77	2.62
		PM ₁₀	0.77	2.62
		PM _{2.5}	0.77	2.62
SHTU5	HTU ₅ Heater	NOx	2.46	9.22
		VOC	0.38	1.42
		SO ₂	2.61	5.84
		CO	2.56	9.62
		PM	0.52	1.96
		PM ₁₀	0.52	1.96
		PM _{2.5}	0.52	1.96

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SLCDU1-1	LCDU Charge Heater	NOx	2.12	7.28
		VOC	0.19	0.65
		SO ₂	1.32	2.69
		CO	2.91	9.99
		PM	0.26	0.90
		PM ₁₀	0.26	0.90
		PM _{2.5}	0.26	0.90
SLCDU1-2	LCDU Charge Heater	NOx	2.59	9.72
		VOC	0.23	0.87
		SO ₂	1.61	3.59
		CO	3.55	13.35
		PM	0.32	1.21
		PM ₁₀	0.32	1.21
		PM _{2.5}	0.32	1.21
SMPU3-1	MPU Refined Oil Mix Heater	NOx	3.31	12.61
		VOC	0.22	0.85
		SO ₂	1.54	3.49
		CO	3.41	12.99
		PM	0.31	1.17
		PM ₁₀	0.31	1.17
		PM _{2.5}	0.31	1.17

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SMPU3-2	MPU No. 3 Extract Heater	NOx	8.94	34.02
		VOC	0.60	2.29
		SO2	4.16	9.43
		CO	9.20	35.02
		PM	0.83	3.17
		PM10	0.83	3.17
		PM2.5	0.83	3.17
SMPU4	MPU 4 Secondary Heater Stack	NOx	4.24	16.57
		VOC	0.29	1.12
		SO2	1.97	4.59
		CO	4.36	17.06
		PM	0.39	1.54
		PM10	0.39	1.54
		PM2.5	0.39	1.54
SMPU4C	MPU No 4 Extract Heater	NOx	9.07	39.74
		VOC	0.61	2.68
		SO2	4.22	11.01
		CO	9.34	40.90
		PM	0.84	3.70
		PM10	0.84	3.70
		PM2.5	0.84	3.70

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SCDHydro/SCHDS2	CDHydro/CDHDS2 Heater	NOx	3.67	13.05
		VOC	0.50	1.76
		SO2	3.42	7.23
		CO	7.56	26.87
		PM	0.68	2.43
		PM10	0.68	2.43
		PM2.5	0.68	2.43
SHCU1-5	HCU No. 1 Prefractionator Heater	NOx	0.93	3.50
		VOC	0.25	0.94
		SO2	1.74	3.88
		CO	3.84	14.43
		PM	0.35	1.31
		PM10	0.35	1.31
		PM2.5	0.35	1.31
SDCU1-1	Coker Heater No.1	NOx	17.56	65.42
		VOC	1.18	4.41
		SO2	8.17	18.12
		CO	18.07	67.34
		PM	1.64	6.09
		PM10	1.64	6.09
		PM2.5	1.64	6.09

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SDCU1-2	Coker Heater No.2	NOx	17.56	65.42
		VOC	1.18	4.41
		SO ₂	8.17	18.12
		CO	18.07	67.34
		PM	1.64	6.09
		PM ₁₀	1.64	6.09
		PM _{2.5}	1.64	6.09
SHTU3-3	HTU No.3 Hydrogen Heater	NOx	0.70	2.63
		VOC	0.13	0.47
		SO ₂	0.87	1.94
		CO	1.92	7.21
		PM	0.17	0.65
		PM ₁₀	0.17	0.65
		PM _{2.5}	0.17	0.65
SVPS2-1	VPS No.2 Common Heater Stack ***	NOx	13.52	50.37
		VOC	1.82	6.79
		SO ₂	12.59	27.91
		CO	27.84	103.70
		PM	2.52	9.38
		PM ₁₀	2.52	9.38
		PM _{2.5}	2.52	9.38

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SVPS2-2	VPS No. 2, No. 4 Atmospheric Heater	NOx	2.80	10.51
		VOC	0.38	1.42
		SO ₂	2.61	5.82
		CO	5.76	21.64
		PM	0.52	1.96
		PM ₁₀	0.52	1.96
		PM _{2.5}	0.52	1.96
SVPS4-1	VPS No. 4, No. 3 Atmospheric Heater	NOx	8.40	36.79
		VOC	0.75	3.31
		SO ₂	5.22	13.59
		CO	11.53	50.50
		PM	1.04	4.57
		PM ₁₀	1.04	4.57
		PM _{2.5}	1.04	4.57
SVPS4-4	VPS No. 4 Naphtha Splitter Reboiler	NOx	3.48	15.24
		VOC	0.31	1.37
		SO ₂	2.16	5.63
		CO	4.78	20.92
		PM	0.43	1.89
		PM ₁₀	0.43	1.89
		PM _{2.5}	0.43	1.89

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SVPS4-2	Atmospheric Heater No. 1 (7)	NOx	10.50	
		VOC	0.94	
		SO ₂	6.52	
		CO	14.41	
		PM	1.30	
		PM ₁₀	1.30	
		PM _{2.5}	1.30	
SVPS4-3	Atmospheric Heater No. 2 (7)	NOx	10.50	
		VOC	0.94	
		SO ₂	6.52	
		CO	14.41	
		PM	1.30	
		PM ₁₀	1.30	
		PM _{2.5}	1.30	
SVPS4-5	Vacuum Heater No. 1	NOx	8.70	
		VOC	0.78	
		SO ₂	5.40	
		CO	11.94	
		PM	1.08	
		PM ₁₀	1.08	
		PM _{2.5}	1.08	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SVPS4-6	Vacuum Heater No. 2	NOx	8.70	
		VOC	0.78	
		SO2	5.40	
		CO	11.94	
		PM	1.08	
		PM10	1.08	
		PM2.5	1.08	
SVPS4-7	Combined Heater Stack (7) (8)	NOx	39.36	165.80
		VOC	3.54	15.49
		SO2	24.44	63.68
		CO	54.02	236.62
		PM	4.89	21.41
		PM10	4.89	21.41
		PM2.5	4.89	21.41
Loading Operations				
FLR39	Loading Rack No. 39	VOC	0.44	0.34
Storage Tanks				
TK1945	Storage Tank No. 1945	VOC	3.88	5.33
		Benzene	0.01	0.01
TK2040	Storage Tank No. 2040	VOC	1.82	1.87
TK2041	Tank 2041	VOC	6.58	6.64
TAL35144	Fresh Caustic	VOC	0.01	0.01
TAL35140	Fresh Sulfuric Acid Tank	H2SO4	0.29	0.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TAL35141	Fresh Sulfuric Acid Tank	H ₂ SO ₄	0.29	0.02
TFT12824	Storage Tank No. 12824	VOC	29.10	0.23
		Benzene	0.03	0.01
TML01247	Storage Tank No. 1247	VOC	5.08	8.87
		Benzene	0.01	0.01
TML01248	Storage Tank No. 1248	VOC	6.16	8.48
		Benzene	0.01	0.01
TML01250	Storage Tank No. 1250	VOC	5.63	7.33
		Benzene	0.01	0.01
TML01251	Storage Tank No. 1251	VOC	0.2	2.42
		Benzene	0.01	0.01
TML01252	Storage Tank No. 1252	VOC	6.17	7.03
		Benzene	0.01	0.01
TML01254	Storage Tank No. 1254	VOC	5.89	7.06
		Benzene	0.01	0.01
TML01490	Storage Tank No. 1490	VOC	1.33	5.31
		Benzene	0.01	0.02
TML01524	Storage Tank No. 1524	VOC	4.59	7.22
TML01525	Storage Tank No. 1525	VOC	3.28	2.49
		Benzene	0.01	0.01
TML01526	Storage Tank No. 1526	VOC	6.95	9.50
TML01663	Storage Tank No. 1663	VOC	6.94	5.27
		Benzene	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TML01698	Storage Tank No. 1698	VOC	4.83	13.04
		Benzene	0.01	0.01
TML01699	Storage Tank No. 1699	VOC	4.82	10.44
		Benzene	0.01	0.01
TML01767	Storage Tank No. 1767	VOC	0.90	4.04
		Benzene	0.01	0.03
TML01768	Storage Tank No. 1768	VOC	0.89	3.77
		Benzene	0.01	0.03
TML01904	Storage Tank No. 1904	VOC	5.91	7.73
		Benzene	0.01	0.01
TML19272	Storage Tank No. 19272	VOC	5.52	5.76
		Benzene	0.01	0.01
TP108874	Storage Tank No. 8874	VOC	1.02	0.54
TP301697	Storage Tank No. 1697	VOC	2.13	1.55
TST01475	Storage Tank No. 1475	VOC	0.52	0.69
TST01510	Storage Tank No. 1510	VOC	1.36	4.87
		Benzene	0.01	0.02
TST01511	Storage Tank No. 1511	VOC	1.71	5.16
		Benzene	0.01	0.02
TST01552	Storage Tank No. 1552	VOC	14.24	4.71
TST01553	Storage Tank No. 1553	VOC	1.74	5.21
		Benzene	0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TST01600	Storage Tank No. 1600	VOC	2.55	2.42
TST01601	Storage Tank No. 1601	VOC	1.67	5.28
		Benzene	0.01	0.01
TST01671	Storage Tank No. 1671	VOC	0.81	2.55
		Benzene	0.01	0.02
TST01679	Storage Tank No. 1679	VOC	4.37	4.37
TST01712	Storage Tank No. 1712	VOC	1.75	4.04
TST01718	Storage Tank No. 1718	VOC	9.5	2.05
TST01719	Storage Tank No. 1719	VOC	9.5	2.05
TST01775	Storage Tank No.1775	VOC	0.99	4.14
		Benzene	0.01	0.02
TST01787	Storage Tank No. 1787	VOC	2.85	2.47
TST01885	Storage Tank No. 1885	VOC	0.80	4.03
		Benzene	0.01	0.02
TST01886	Storage Tank No. 1886	VOC	2.12	8.70
		Benzene	0.01	0.06
TST01893	Storage Tank No. 1893	VOC	5.36	6.67
TST01894	Storage Tank No. 1894	VOC	4.55	7.91
TST01895	Storage Tank No. 1895	VOC	1.17	4.04
		Benzene	0.01	0.02
TST01913	Storage Tank No. 1913	VOC	0.66	2.61
		Benzene	0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TST01920	Storage Tank No. 1920	VOC	1.04	3.18
		Benzene	0.01	0.01
TST01932	Storage Tank No. 1932	VOC	3.17	1.73
TST01933	Storage Tank No. 1933	VOC	3.17	1.73
TST01934	Storage Tank No. 1934	VOC	3.17	1.73
TK2140	Storage Tank 2140	VOC	0.01	0.01
TK2127	Storage Tank 2127	VOC	22.21	0.56
TST19194	Storage Tank No. 19194	VOC	1.09	4.87
		Benzene	0.01	0.03
TST21657	Storage Tank No. 21657	VOC	4.37	4.29
TST21774	Storage Tank No. 21774	VOC	4.82	5.92
TST21775	Storage Tank No. 21775	VOC	4.82	4.36
TVA01820	Storage Tank 1820	VOC	0.01	0.01
TVA01821	Storage Tank 1821	VOC	0.05	0.04
TNKGRP2	Tank Group (6)	VOC	190.4	161.75
		Benzene	0.18	0.29
		H ₂ SO ₄	0.59	0.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
Vents				
SCRU4-2	Regen Vent Scrubber Emissions	NOx	0.97	4.25
		SO2	0.67	2.96
		PM	0.06	0.26
		PM10	0.06	0.26
		PM2.5	0.06	0.26
		HCl	0.06	0.24
		Chlorine	0.01	0.05
SVVMPU3-3	MPU No. 3 Vacuum System Emissions	VOC	1.50	6.60
Fugitive Emissions				
CAS	CAS Fugitive Emissions (5)	VOC	0.07	0.30
		Benzene	<0.01	<0.01
FHTU5	HTU5 Fugitive Emissions (5)	VOC	3.50	15.32
FCOKE1	Delayed Coking Unit Coke Handling Fugitives (5)	PM	0.01	0.01
		PM10	0.01	0.01
		PM2.5	0.01	0.01
FALKY4	ALKY 4 Fugitive Emissions (5)	VOC	7.37	32.28
		Benzene	0.01	0.01
FASTU2	WW Collection Oil Recovery (5)	VOC	2.90	12.70
		Benzene	0.01	0.01
FBOTF	BOTF Fugitive Emissions (5)	VOC	0.28	1.22
FBSW	Bottoms, Solids, Water Tanks Farm Fugitives (5)	VOC	0.57	2.48
		Benzene	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FCDHDS1	CDHDS1 Fugitive Emissions (5)	VOC	1.87	8.21
		Benzene	0.02	0.10
FCDHDS2	CDHDS2 Fugitive Emissions (5)	VOC	3.15	13.80
		Benzene	0.04	0.17
FCGHT	CGHT Fugitive Emissions (5)	VOC	0.01	0.01
FCRU4	CRU No. 4 Fugitive Emissions (5)	VOC	4.70	20.60
		Benzene	0.01	0.06
FDCU1	DCU 1 Fugitive Emissions (5)	VOC	6.75	29.58
		Benzene	0.01	0.06
FFCCU3	FCCU No. 3 Fugitive Emissions (5)	VOC	6.48	28.39
		Benzene	0.01	0.01
FGR-1	Flare Gas Recovery Fugitive Emissions (5)	VOC	0.92	4.03
		Benzene	0.01	0.01
FGR-2	Flare Gas Recovery Fugitive Emissions (5)	VOC	1.07	4.67
		Benzene	0.01	0.01
FHCU1	HCU No. 1 Fugitive Emissions (5)	VOC	4.26	18.66
		Benzene	0.01	0.01
FHTU1	HTU No. 1 Fugitive Emissions (5)	VOC	1.62	7.11
		Benzene	0.01	0.01
FHTU2	HTU No. 2 Fugitive Emissions (5)	VOC	1.23	5.38
		Benzene	0.01	0.01
FHTU3	HTU No. 3 Fugitive Emissions (5)	VOC	2.58	11.32
		Benzene	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FHTU4	HTU No. 4 Fugitive Emissions (5)	VOC	4.76	20.83
		Benzene	0.01	0.01
FLCDU	LCDU Fugitive Emissions (5)	VOC	0.59	2.60
		Benzene	0.01	0.01
FLF	PAP Landfill	VOC	0.01	0.01
FLR43/44FE	Loading Rack Fugitive Emissions (5)	VOC	0.08	0.36
FMPU3	MPU No. 3 Fugitive Emissions (5)	VOC	0.69	3.02
		Benzene	0.01	0.01
FMPU4	MPU No. 4 Fugitive Emissions (5)	VOC	0.44	1.94
		Benzene	0.01	0.01
FNSGP	North Side Gas Plant Fugitive Emissions (5)	VOC	1.44	6.30
		Benzene	0.01	0.01
FPH27	Pump House No. 27 Fugitive Emissions (5)	VOC	7.68	33.67
		Benzene	0.01	0.01
FPH57	Pump House No. 57 Fugitive Emissions (5)	VOC	2.76	12.09
		Benzene	0.01	0.01
FSCTLA	Lift Station Fugitives (5)	VOC	0.08	0.33
		Benzene	0.01	0.01
FU-Rack4	Loading Rack No. 4 Fugitive Emissions (5)	VOC	0.11	0.52
		Benzene	0.01	0.01
FVPS2	VPS No. 2 Fugitive Emissions (5)	VOC	3.60	15.75
		Benzene	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FVPS4	VPS No. 4 Fugitive Emissions (5)	VOC	5.83	25.56
		Benzene	0.01	0.05
FWAGS	Wet Acid Gas Scrubber Fugitive Emissions (5)	VOC	0.51	2.22
		Benzene	0.01	0.01
FWSGP	WSGP Fugitive Emissions (5)	VOC	0.01	0.03
FSPS3	FSPS3 Fugitive Emissions (5)	VOC	0.01	0.01
FTK2127	FTK2127 Fugitive Emissions (5)	VOC	0.43	1.86
PSAMP	Propylene Sampling in FCCU3	VOC	3.89	0.39
EFCCU3	FCCU No. 3 Flare Stack Pilots	NO _x	0.01	0.03
		CO	0.06	0.24
		SO ₂	0.01	0.01
		VOC	0.01	0.01
EHCU	HCU No. 1 Flare Stack Pilots	NO _x	0.01	0.04
		CO	0.07	0.32
		SO ₂	0.01	0.01
		VOC	0.01	0.01
EHTU	HTU No. 4 Flare Stack Pilots	NO _x	0.01	0.03
		CO	0.05	0.22
		SO ₂	0.01	0.01
		VOC	0.01	0.01
EVPS4	VPS No. 4 Flare Stack Pilots	NO _x	0.01	0.03
		CO	0.06	0.24
		SO ₂	0.01	0.01
		VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
ECRU4	CRU No. 4 Flare Stack Pilots	NO _x	0.01	0.03
		CO	0.06	0.24
		SO ₂	0.01	0.01
		VOC	0.01	0.01
EDCU1	Delayed Coking Unit No. 1 Flare Stack Pilots	NO _x	0.01	0.03
		CO	0.05	0.22
		SO ₂	0.01	0.01
		VOC	0.01	0.01
EFCCU1&2	ALKY 4 Flare Stack Pilots	NO _x	0.01	0.03
		CO	0.06	0.24
		SO ₂	0.01	0.01
		VOC	0.01	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 H₂SO₄ - sulfuric acid
 HCl - hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Refer to MAERT ATTACHMENT – TANK GROUP for the specific EPNs, Facility Identification Numbers, and source names included in this group.
- (7) The burners in the atmospheric heaters (FINS VPS4ATM1HT and VPS4ATM2HT) are authorized by Standard Permit 89842.

Emission Sources - Maximum Allowable Emission Rates

(8) The atmospheric and vacuum heaters (FINS VPS4ATM1HT, VPS4ATM2HT, VPS4VAC1HT, and VPS4VAC2HT) may exhaust through this common stack.

** The FINS included in EPN SCRU4-1 are CRU4INTHT1, CRU4INTHT2, CRU4NHTCHT, CRU4PLATHT, and CRU4SRBL.

*** The FINS included in EPN SVPS2-1 are VPS2ATM1HT, VPS2ATM2HT, VPS2ATM3HT, VPS2VAC1HT, and VPS2VAC2HT.

Date: June 15, 2016